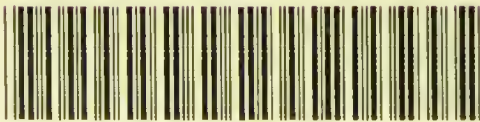


ABRIDGED
DENTAL CATALOGUE
1905

CLAUDIUS ASH & SONS, LIMITED
LONDON



22400014518

ABRIDGED CATALOGUE OF DENTAL MATERIALS.

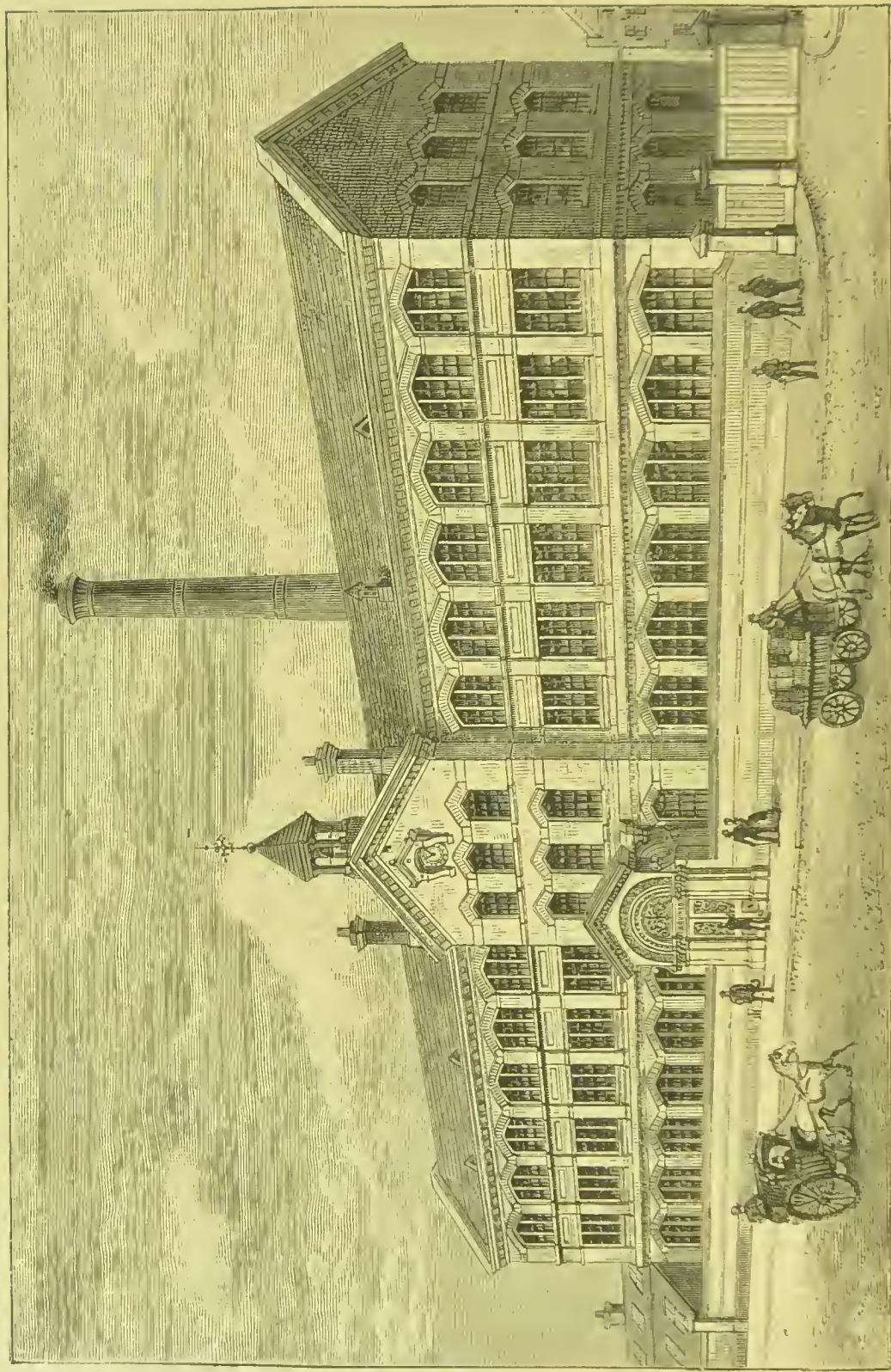
In issuing this Catalogue to the members of the Dental Profession at home and abroad, we have pleasure in pointing out that it is "Abridged" only in the sense that certain illustrations and descriptive paragraphs, which necessitated a large volume in former editions, have been omitted.

As a Price List the present volume is complete, and will be found to contain illustrations of many of the most useful articles.

CLAUDIUS ASH & SONS, Ltd.,
5 to 10, BROAD STREET, GOLDEN SQUARE,
LONDON, W.

1905.

Address for Telegrams :—FRENES, LONDON.
Telephone Numbers :—Gerrard 5258, Central 13499.



CLAUDIUS ASH AND SONS' MANUFACTORY.



CLAUDIUS ASH & SONS, LIMITED.

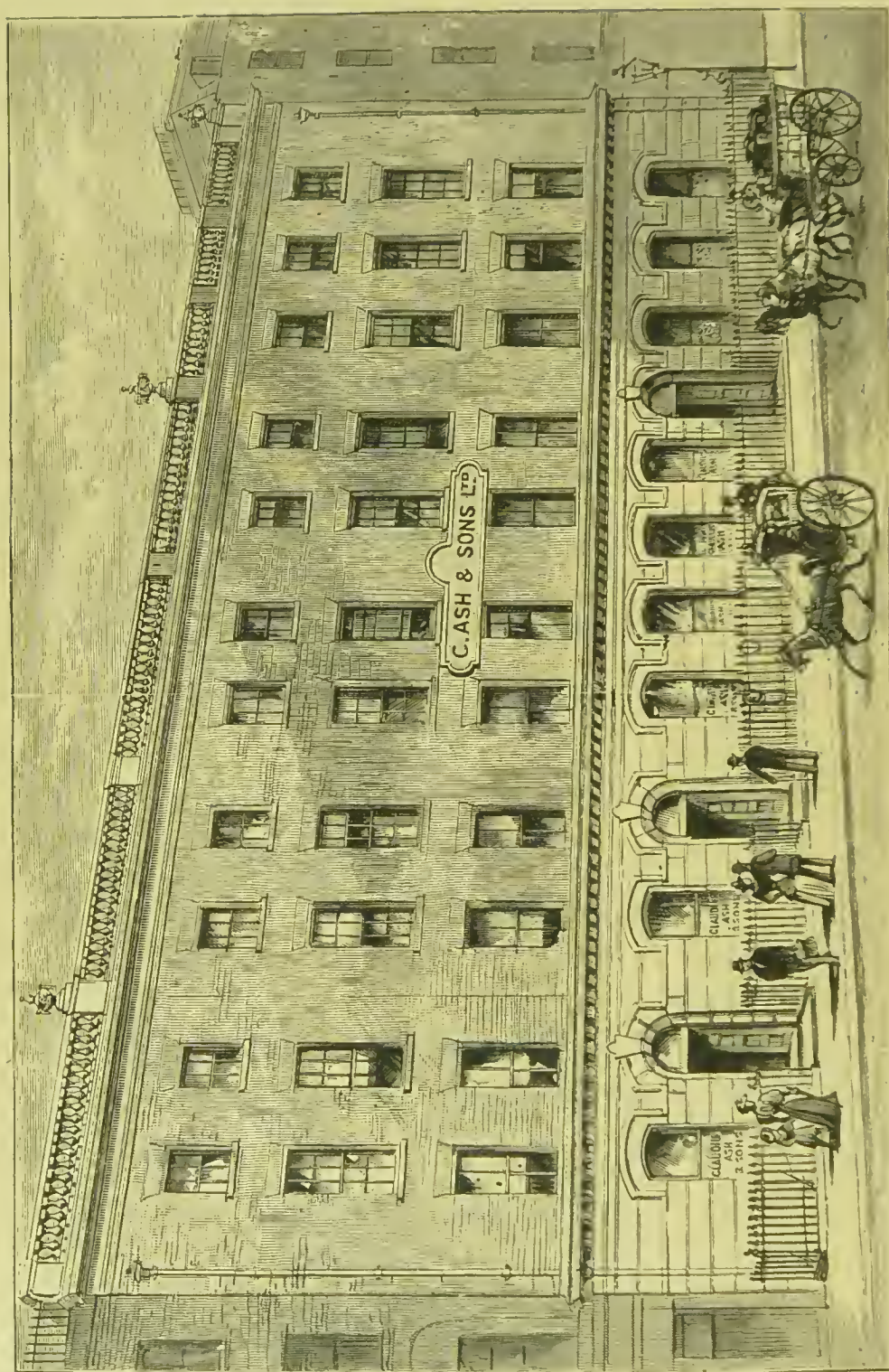
BRANCHES:

LIVERPOOL	78, Mount Pleasant.
MANCHESTER	118 ¹¹ , Oxford Road.
PARIS	22, Rue du Quatre-Septembre.
BERLIN	9, Jäger-Strasse.
HAMBURG	62 and 63, Gänsemarkt.
FRANKFURT A/MAIN	7, Börsenplatz.
MILAN	Via Monte Napoleon, 11.
VIENNA	2, Spiegelgasse, Ecke Graben.
BUDAPEST	Ferencziek-Tere, 4.
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COPENHAGEN	3, Boldhusgade.
CHRISTIANIA	Christian IV. Gade, 13.
STOCKHOLM	9, Malmskildnadsgatan.
ST. PETERSBURG	21, Kleine Morskoy.
MOSCOW	Leontjewski Pereulok, No. 14, House Davidowa.
NEW YORK	30, East Fourteenth Street.

Correspondence in French, German, Spanish, and Italian.
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5, 6, 7, 8, 9 & 10, BROAD STREET, GOLDEN SQUARE, LONDON, W.

MAP FROM OXFORD STREET TO REGENT STREET AND CHARING CROSS
SHOWING THE PRINCIPAL THOROUGHFARES LEADING TO C. ASH & SONS' DENTAL DEPÔT



Stamford's Geogr. Establ. London

40 Chains

30

Scale of 20 half a Mile

10

Chains 2

REMARKS ON ORDERING GOODS, Etc.

It will save much of our time, and greatly assist us in the prompt execution of orders, if, when ordering, the page and figure of the article, if illustrated, are quoted.

A fresh line should be commenced for each article.

The Address to which the goods are to be sent should be distinctly written, and if any particular conveyance or route be preferred the same should be named. When no forwarding instructions are given, discretion will be exercised as to the best manner of sending.

Printed Order Books are supplied, free of charge, on application. There is a counterfoil to every form in each book, on which a record of the goods ordered can be kept.

Printed Envelopes, bearing our name and address, may be had, free of charge, on application.

Goods of other Manufacturers, English or American, obtained to order.

Goods to the Colonies and foreign parts are insured at the expense of the purchaser, unless ordered otherwise.

The Parcel Post now in operation between England, the Colonies, and most Foreign Countries affords an inexpensive and quick means for the transmission of small parcels, which can be insured at reasonable rates.

Accounts are only opened on receipt of approved references.

ALTERATIONS IN PRICES.

Page		From		To	
		s.	d.	s.	d.
75,	S. S. White's Portable Travelling Chair	150	0	167	6
..	35 & 109, Diamond Burs, assorted sizes	2	6	2	0
..	86, Thorne's Forceps Nos. 110 and 111	10	0	12	0
..	170, Extra Bulb for Chip Syringe	1	3	1	6
..	170 Water	1	3	1	6
..	171 Hot-Air Syringe	1	3	1	6
..	173, 100-Minim Root-Dressing Syringe	3	6	4	0
..	173, 20-Minim	3	6	4	0

Note.—All the prices in this Catalogue are subject to alteration without notice.

CLAUDIUS ASH & SONS, Ltd.



All goods are despatched at the risk of the purchaser.

Bankers' Drafts, Cheques, etc., should be crossed "Union of London and Smiths Bank, Ltd."

Post Office Orders and Postal Orders should be made payable at the Chief Office, St. Martin's-le-Grand, London, to CLAUDIUS ASH & SONS, LTD.

A discount of 5 per cent. is allowed off all accounts for Teeth, Dental Rubbers, Furniture, Instruments, Gas Apparatus, Tools, and Sundries, of not less than £5 in amount, for cash **on delivery of the goods**. Precious Metals are invoiced at **net cash** prices.

OLD METALS, Etc.

We purchase old Gold, Platinum, Dental Alloy, Silver, Board and Floor Sweep, in either large or small quantities.

It may be remarked that several sendings of small quantities are not so profitable to the vendor as the same metals, etc., are if sent in one parcel, for this reason: each lot that is sent has to be separately tested to ascertain its intrinsic value, and the expense of several testing trials is necessarily greater than one.

IMPORTANT.

Never mutilate but always mention the name of the Catalogue or List from which goods are ordered, and, if possible, give date of same and the number of the page referred to.

CLAUDIUS ASH & SONS, LIMITED.

ASH'S SET OF TEETH SHADES.

(REGISTERED. REG. NO. 269,728.)



Each Tooth in the Set of Shades here illustrated is made with a single pin, and is riveted to a strip of aluminium bearing the colour and shade by which the tooth is known—the letter or letters indicating the colour, and the number the shade.

The single pin serves as a pivot, and permits of the Tooth being turned completely round, so that when the Upper Teeth are to be matched the cutting edge can be set downwards, as shown in the engraving, and, inversely, when the Lowers are to be matched the cutting edge can be set upwards. This arrangement is of great advantage, inasmuch as it enables the operator to place any Tooth in the Set of Shades against the Teeth in the mouth in such a way that the effect is seen at a glance, and when he has found the Tooth which matches, it is only necessary for him to write for B/3, D/4, etc., in order to obtain approximately the colour and shade which he requires.

ASH'S MINERAL TEETH.

The greatest care and attention are bestowed on this, the staple branch of our manufactures ; new forms, sizes, and colours are being continually introduced, in order to meet, as far as possible, the requirements of an art which has for its object the close imitation of the Natural Teeth in their infinite varieties of form, colour, and general appearance.

Our stock comprises a most extensive assortment of flat, vulcanite, diatoric (pinless), and tube teeth, which possess the following desirable qualities :

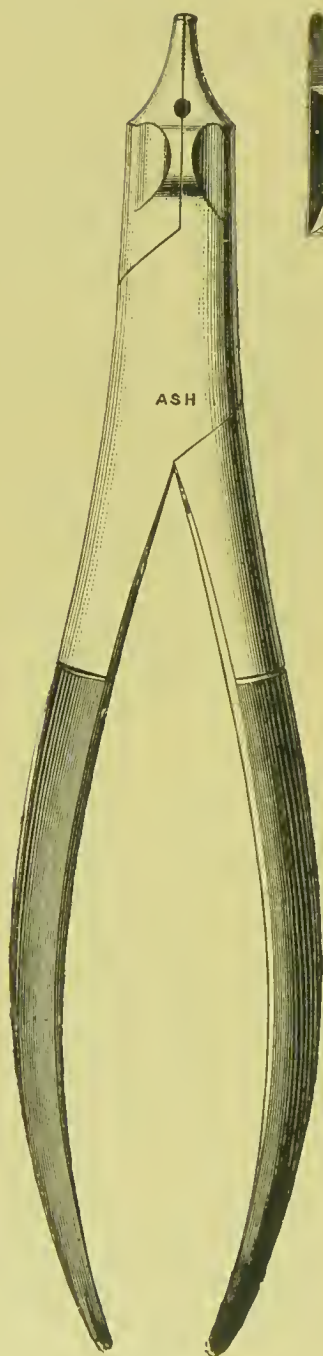
NATURAL FORM.—The shapes, which are made in a great variety of sizes and lengths, closely resemble human teeth.

COLOUR.—They are made in so many different colours, in shades ranging from very light to very dark, that any tooth can be closely matched.

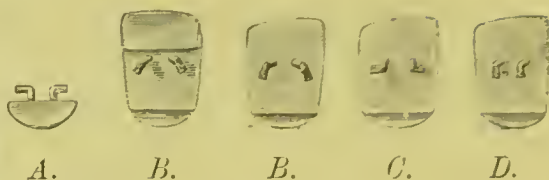
ADAPTABILITY.—Being made of the same material throughout, they can be cut or ground, in any way to any extent desired, and polished, the new surface thus obtained being perfectly clean and equal to any other part of the tooth in its absolute imperviousness to moisture. As showing to what extent this can be done, we may mention that some dentists even go so far as to convert one tooth into another by grinding and polishing.

It will, therefore, be seen that their adaptability is practically unlimited in the hands of the skilful worker, and that they are not only eminently suited for general work, but also for inlay and crown work and for all kinds of special or abnormal cases.

TEXTURE AND STRENGTH.—Their fine, close texture and freedom from porosity or air-bubbles give them that unusual strength for which they are everywhere renowned ; the surface of the mineral remains unimpaired after the process of soldering, and also when the teeth are used for continuous-gum work.

ASH'S MINERAL TEETH—*continued.*

FULL SIZE.



LONG PINS.—All our flat and vulcanite teeth are made with long tough platinum pins (the flat being suitable for either plate or vulcanite work), which can be bent and roughened, with the pliers here shown, to keep them firmly fixed in the vulcanite. To obtain the best results the pins should be bent as nearly as possible at right angles (see Fig. *A*), and in such a direction that they will grasp the vulcanite in the thickest part. In the several illustrations given above, Fig. *B* shows the most usual bend.

PRICE:

Pin Roughing and Bending Pliers,	<i>s.</i>	<i>d.</i>
Nickel-plated	5	0

TEETH CATALOGUE.

Illustrated Catalogue of the various kinds, patterns, sizes, and lengths of the mineral teeth which we manufacture will be sent, post free, on receipt of professional card.

ASH'S MINERAL TEETH—*continued.*



139

We desire to inform the Profession that our Trade Mark as here shown—



is impressed on the back of all the wax on which we fix the Mineral Teeth of our Manufacture, and that the absence of this Trade Mark is evidence that any teeth which may be offered for sale as ours are not genuine.

We find it necessary to make this announcement in order to protect ourselves and the Profession against the many inferior imitations of our Mineral Teeth which are now in the Market.

SUGGESTIONS FOR ORDERING TEETH.

Orders for teeth should contain the fullest possible information to ensure their prompt and accurate execution. A written order is always preferred. It is necessary to state clearly :—

- | | |
|--------------|--|
| Kind . . . | whether flat, vulcanite, diatoric, tube, or gum. |
| *Size . . . | „ large, medium, or small. |
| *Length . . | „ long, medium, or short. |
| *Enamel . . | „ long or short. |
| Number . . | „ in sets of 2, 4, 6, 14 or 28. |
| *Surface . . | „ smooth, corrugated, or natural pattern. |

Colour—When patterns cannot be sent, the colours and shades required should be quoted from the set of shades.

* It will not be necessary to mention the *size, length, enamel, and surface* when ordering from our Teeth Catalogue; all that then need be done is to quote the number of the illustration and the page on which it is shown.

ASH'S MINERAL TEETH—*continued.*

A discount of 5 per cent. for prompt cash is allowed when teeth are purchased to the amount of £5 and upwards.

Owing to the continued fluctuation in the value of Platinum we have not given the Prices of Teeth on this page, but Current Rates can be had on Application.

Ash's Mineral Teeth are supplied in the following varieties :—

FLAT TEETH.

Incisors and Canines	In sets of 6, Upper or Lower.
Incisors	„ 4, „ „
Incisors and Canines	In pairs, „ „
Bicuspid and Molars	In sets of 4, „ „
„ „	„ 8, „ „

TEETH FOR VULCANITE.

Complete Dentures	In sets of 28, Upper and Lower.
Dentures	„ 14, Upper or Lower.
Incisors and Canines	„ 6, „ „
Incisors	„ 4, „ „
Incisors and Canines	In pairs, „ „
Bicuspid and Molars	In sets of 16, Upper and Lower.
„ „	„ 8, Upper or Lower.
„ „	„ 4, „ „

DIATORIC (PINLESS) TEETH.

In sets like the Vulcanite Teeth, but not in pairs.

TUBE TEETH.

In sets and pairs, like the Flat Teeth.

TEETH FOR WOOD PIVOTS.

In sets of 4 and 6, Incisors and Canines, Uppers only.

ASH'S MINERAL TEETH—*continued.*

ASH'S DOWEL CROWNS.

Made in Centrals, Laterals, Canines, and Bicuspid.

(See pages 14 and 15.)

Prices :

		s.	d.
Crowns	each	0	9
Single Pins, in best Dental Alloy	„	0	9
Bifurcated Pins, „ „	„	1	0

HAND-PAINTED TEETH FOR SMOKERS
AND OTHERS.

Colours fired after the painting is done, and thus permanently fixed.

We are prepared to supply single teeth or sets to match almost any colour or shade that may be sent to us at the uniform rate of

1/- per tooth.

BLACK MINERAL TEETH.

WITH PLATINUM PINS.

FOR PLATE AND VULCANITE WORK.

Made in a variety of sizes and shapes. As used in the Far East. These teeth are black all the way through, and can therefore be ground and polished like our other Mineral Teeth.

	s.	d.
Price, per tooth.	1	0
„ „ 100	80	0

MINERAL SPECIMENS.

	s.	d.
Dentures, Upper or Lower	each	20 0
Complete Dentures, Upper and Lower to match	„	40 0

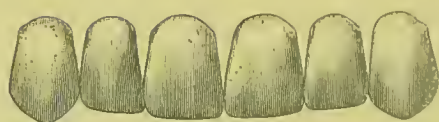
A very extensive assortment of **Odd Teeth** of all kinds is kept in stock, and every facility is afforded for selecting them to suit special cases.

Broken sets of Teeth are made up for Dentists at the ordinary selling prices.

Wax in sheets for sticking Teeth on, per lb., 5s.

AMERICAN TEETH.

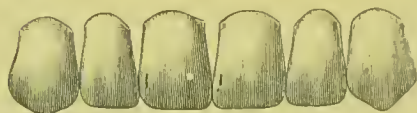
We have always on hand a large and varied stock of S. S. White's and Justi's Pin Teeth and Gum Teeth—*current prices sent on application.*

ASH'S DOWEL CROWNS—*continued.*

15



73



22



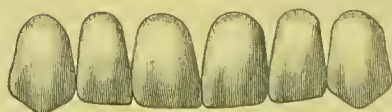
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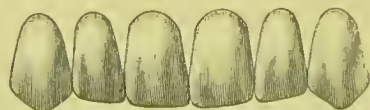
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58



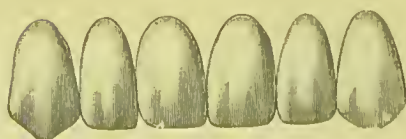
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62



91



70



138

ASH'S DOWEL CROWNS—*continued.*



TO GRIND AND POLISH ASH'S MINERAL TEETH.

(By the late R. P. LENNOX, of Cambridge.)

“Although Ash's mineral teeth have now been before the profession for close upon seventy years, and many references are made in dental literature to the fact that they are of the same non-porous texture throughout, and can therefore be ground and polished to any extent that may be desired to suit special cases, it is yet remarkable that no writer has attempted to give definite instructions for grinding and polishing them.

“By way of introduction to making such an attempt, I may say in the first place that the density of Ash's mineral teeth permits of their being ground to a very fine edge without the risk of chipping, and, if necessary, the ground surface can afterwards be highly polished. A further advantage is the absence of the particles of porcelain which in some teeth are found encroaching upon the pins, to remove which, when backing teeth, involves annoyance and loss of time.

“**To Grind the Teeth.**—For this purpose I use carborundum or corundum wheels running in a trough of water when doing the work in the lathe, and carborundum or corundum wheels and points when doing it with the dental engine.

“The use of carborundum pretty well does away with the need for a steel tool in countersinking, but where a lathe or dental engine is not at hand, the teeth may be countersunk by means of a graver and camphorated turpentine, into which the graver is dipped from time to time.

“**To Polish the Teeth.**—This is a process which I seldom find it necessary to carry to any great length. An Arkansas stone run in the dental engine* and kept wet gives a very fine surface. No. 1 glass paper used dry will add a further gloss. Where a yet finer surface is desired, I use a buff carrying putty powder, and finally finish with whiting.

“The following articles for the double purpose of **grinding** and **polishing** will meet all requirements :—

* Every well-equipped workshop should be provided with a dental engine.—*R. P. L.*

TO GRIND AND POLISH ASH'S MINERAL TEETH

(continued).

“ Equipment for use with the Dental Lathe.

(1) A carborundum or corundum wheel for grinding the tooth to shape.

(2) An Arkansas wheel or an Ash's polishing wheel for removing the marks left by the carborundum or corundum, and for smoothing the ground surface.

(3) A brush or buff wheel, some superfine pumice or putty powder, and some whiting for polishing. *Note.*—Water to be used at every stage.

“ Equipment for the Dental Engine.

(1) Carborundum or corundum wheels and points.

(2) An Arkansas or Water of Ayr stone.

(3) A brush or buff polisher, some superfine pumice, etc., as under No. 3 above.

“ Equipment for hand use.

(1) A half-round carborundum or corundum file.

(2) A hone of Arkansas or Water of Ayr stone.

(3) A hand buff, some superfine pumice, etc., as under No. 3 of dental lathe equipment.”

ASH'S POLISHING STONE.

For imparting a smooth and polished surface to Mineral Teeth after they have been ground.

In all our experience we have never found a stone to equal it for this purpose. It is tough, though soft ; does not chip, like most other stones do, and will stand long and hard wear if it be kept well wetted with water during use.

It fits the Lathe Chucks of our manufacture.



	s.	d.
Price	1	0

CASES FOR HOLDING MINERAL TEETH.



JAPANNED,
WITH LOCK AND KEY.

	£	s.	d.
To hold 5000 .	1	8	0
„ „ 3000 .	1	2	6
„ „ 2000 .	0	18	6

LEATHER,
WITH HOOKS AND LOOPS.

	£	s.	d.
To hold 1000 .	1	10	6
„ „ 600 .	0	9	0
„ „ 300 .	0	5	6



TEETH CABINET.

(ASH'S ENGLISH MANUFACTURE.)

This Cabinet will hold between 6000 and 7000 Teeth. It is provided with lock and key on the side, as shown in the illustration, by means of which all the drawers are locked or unlocked at once.

Outside Dimensions :—Height, 17 inches;
Width, 12 $\frac{3}{8}$ inches; Depth, 10 $\frac{5}{8}$ inches.

With eleven drawers 10 $\frac{1}{2}$ × 9 $\frac{3}{8}$ × $\frac{3}{4}$ inches;
and one deep drawer 10 $\frac{1}{2}$ × 9 $\frac{3}{8}$ × 2 $\frac{3}{4}$ inches,
suitable for sundries.

	£	s.	d.
In Deal, polished	1	5	0
In Mahogany, polished	1	18	0

Cases or Boxes in Card, Wood, Leather, Britannia Metal,
or Japanned Tin made to order or special directions.

DALL'S

GROUND MINERAL INLAYS,

INLAY BURS AND GAUGE.

(REGISTERED. REG. Nos. 297,136 and 303,110.)

ADVANTAGES :

Rapid and beautiful work can be done with the **GROUND INLAYS** designed by Mr. Dall, of Glasgow, whose very large experience of Inlay Work enables him to say that he can thoroughly recommend it to the Profession.

These inlays are durable, artistic, and pleasing to patients, and can be inserted in from ten to fifteen minutes.

Inlays can be inserted on the labial surfaces of upper and lower incisors, also on the buccal surfaces of upper and lower bicuspid.

Inlays can be inserted on the cervico-labial surfaces of upper and lower incisors, and on the cervico-buccal surfaces of upper and lower bicuspid.

Inlays can be inserted on the coronal surfaces of upper and lower bicuspid and molars.

Inlays can be inserted on the disto-labial and mesio-labial surfaces of upper and lower incisors, and on the mesio-buccal surfaces of upper and lower bicuspid.

Inlays can be inserted in the small cavities of honeycombed teeth.

INLAYS.

These are made slightly tapering from back to front, in twenty-five sizes, as illustrated on Inlay Gauge on page 21. The side views to the left of the Gauge represent deep and shallow inlays, size A L, and the front view shows how the inner surface is serrated for securing firm attachment to the phosphate cement, which is used for fixing the inlays in position.

The inlays are prepared in a variety of shades. In ordering them please indicate the shade required by quoting **from the cutting edges of the teeth** on our Set of Shades.

INLAY BURS.

These are made in twenty-five sizes which correspond with the inlays. The shape of the burs and inlays is conical, consequently the cavity will take the same size of inlay as the size of bur used.

DALL'S METHOD OF INLAY WORK.

FIG. 1.

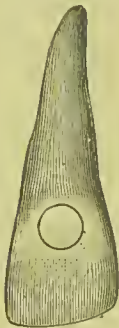


FIG. 2.



FIG. 3.



INSTRUCTIONS.

FIG. 1.—**First.**—Clean the surface of the tooth by using, in the engine, a fine carborundum point or paper disc, so that the decayed or soft parts can be seen to their full extent.

Second.—Enlarge the cavity with sharp rose-headed burs and one or two inlay burs, make a slight groove with grooving bur at base of wall. select inlay same size as bur, fix with phosphate cement, dry with hot air. and when dry grind the surface of the inlay with carborundum points. which still further tends to harden the cement; finish with Ash's Tan-stones, Water of Ayr stone, buff and pumice.

FIG. 2.—Same instructions as for Simple Cavity in Fig. 1, with one or two exceptions, viz., rose-headed burs need not be used; the inlay burs can be employed from start to finish; moreover, a groove at base of cavity is not necessary.

FIG. 3.—Same instructions as for Pitted Teeth—see Fig. 2.

The Tapering-cone Bur, shown on page 21, will be found very useful for Cavities of this class, especially when it is necessary to drill right through the tooth, in which case a tapered inlay is inserted corresponding to the size of the bur used.

The Operator must be very careful, while enlarging cavity, not to exercise pressure on the bur towards the cutting edge, as thereby it would be weakened.

DALL'S ROUND INLAY OUTFIT.

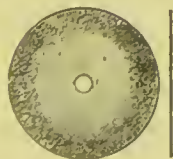
(REGISTERED. REG. NOS. 297,136 AND 303,110.)

Fig. 1.

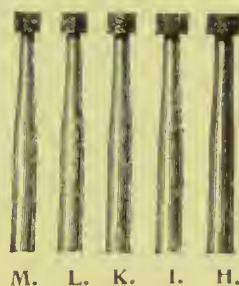
DALL'S
GROUND INLAYS



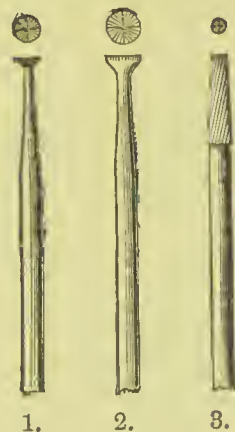
Diamond Disc.



Diamond Burs.



SPECIAL BURS.



(continued).

* The large size of each is shown in the Illustration on the previous page, but larger sizes can be had to order.

DALL'S ROUND INLAY OUTFITS IN CASES.



PARTIAL SET CASE.

	£	s.	d.
Full Set Case, complete	9	6	0

This case contains 100 Assorted Round Inlays, 46 Burs for Straight Handpiece and Right-Angle Attachment, 4 Carriers, 1 Gauge, 2 Diamond Discs, 1 Mandrel, and Leather Case with ebony racks for Burs, and Boxes with glass lids for Inlays.

Partial Set Case, as illustrated	6	3	6
--	---	---	---

This case contains 100 Assorted Round Inlays, 14 Burs for Straight Handpiece, 1 Carrier, 1 Gauge, 2 Diamond Discs, 1 Mandrel, and Leather Case with ebony rack for Burs, and Boxes with glass lids for Inlays.

Sample Outfit	2	15	0
-------------------------	---	----	---

Consisting of 50 Assorted Round Inlays, 6 useful sizes of Burs for Straight Handpiece, 1 Special Bur, 1 Diamond Disc, 1 Mandrel, and Leather Case with ebony rack for Burs, and Boxes with glass lids for Inlays.

ASH'S

PORCELAIN ENAMELS

FOR SHADING MINERAL TEETH AND INLAYS.



These Enamels can be fused on any make of teeth, and are warranted not to wear off in the mouth. When properly fired, they will stand any test to which they may be subjected, either in soldering or vulcanizing.

We supply them in the following eight colours: White, Grey, Blue, Dark Green, Dark Brown, Light (Italian) Brown, Black, Yellow, put up in a neat cloth-covered cardboard box.

Directions for use sent with each Outfit.

PRICES:

Box containing eight bottles Porcelain Enamels, one bottle Mixing Liquid, Porcelain Palette, Palette Knife, two Camel-hair Pencils, and Nickel Tray	s.	d.
	16	0
Gum Enamel , for veneering the cervical border of Inlays and Crowns, No. 55B per $\frac{1}{4}$ -oz. bottle	2	6

ASH'S LOW-FUSING OR HIGH-FUSING COMPLETE MINERAL OUTFIT FOR PORCELAIN INLAYS AND CROWNS.

NOTE.

Since this illustration was made the Outfit has been improved and enlarged.



Our aim in putting forward this **Complete Outfit** is to place in the hands of the Operator, especially the beginner, everything that is needful for Inlay Work, and thus to economise his time and labour.

	£	s.	d.
Ash's Low-Fusing Outfit, complete, in Oiled Walnut Case . .	5	0	0
Ash's High-Fusing Outfit, complete, in Oiled Walnut Case . .	5	0	0

Both Outfits contain 9 half-oz. bottles Mineral Body, 1 half-oz. Gum Enamel, Mixing Liquid, Spatula, 1 dwt. Platinum Foil, 1 Inlay Swager, 1 Diamond Bur, 2 Diamond Discs, and accessories.

In ordering, be careful to state whether the Low-Fusing or the High-Fusing Outfit is required.

Illustrated Circular on application.

ASH'S LOW-FUSING MINERAL BODIES AND GUM ENAMEL.

Greatly Improved.

FOR INLAYS AND CROWNS.

Not recommended for Bridges and Continuous-Gum Sets.



VERY DENSE — CAN BE GROUND AND POLISHED LIKE OUR
MINERAL TEETH.

SUITABLE FOR USE IN CROWN WORK WITH ANY MAKE OF TEETH.
CAN BE FIRED IN ANY ELECTRIC OR GAS FURNACE ADAPTED
FOR PORCELAIN WORK.

IF PROPERLY FIRED, will not change colour in the mouth, there being no ingredient in them that can possibly discolour.

The box contains the following shades: Bodies, B/1 Light, B/2 Dark, B/3 Light, C/3 Light, D/2 Dark, E/1 Light, F/2 Light, and Enamel, 55B.

The Bodies can be fired in from one to two minutes, and the Gum Enamel in three-quarters of a minute in an efficient Furnace.

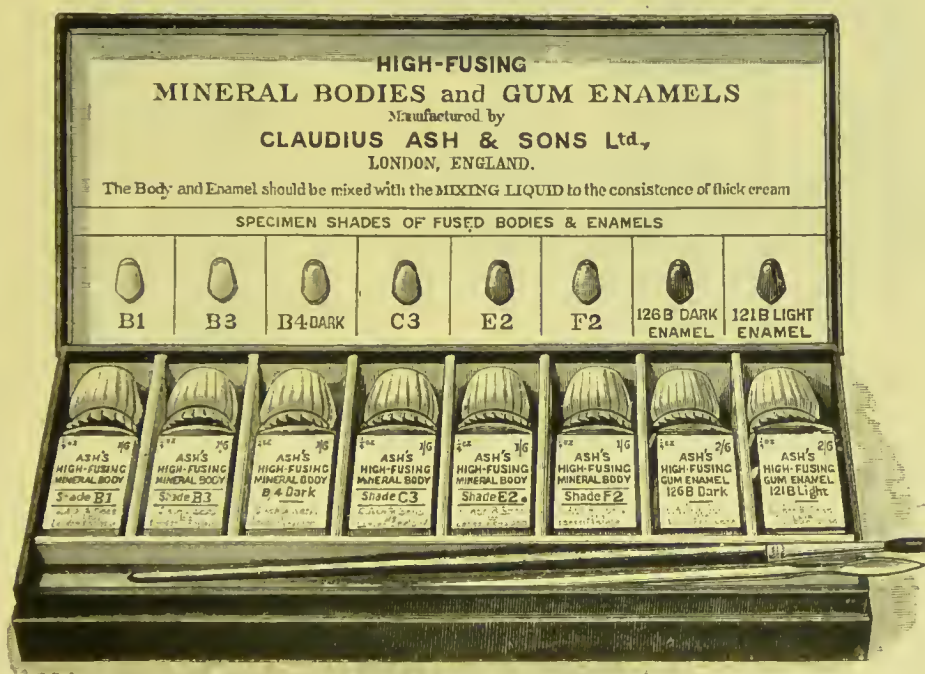
Box complete, containing seven bottles of Mineral Body,
one bottle Gum Enamel, Nickel-plated Spatula, and s. d.
Camel-hair Pencil 15 0

ASH'S HIGH-FUSING MINERAL BODIES AND GUM ENAMEL.

Specially Prepared for Inlays and Crowns.

REVISED SHADES.

To meet the demand that has arisen for our High-Fusing Bodies and Enamel for Inlays and Crowns, we supply them ground very fine in the shades mentioned below.

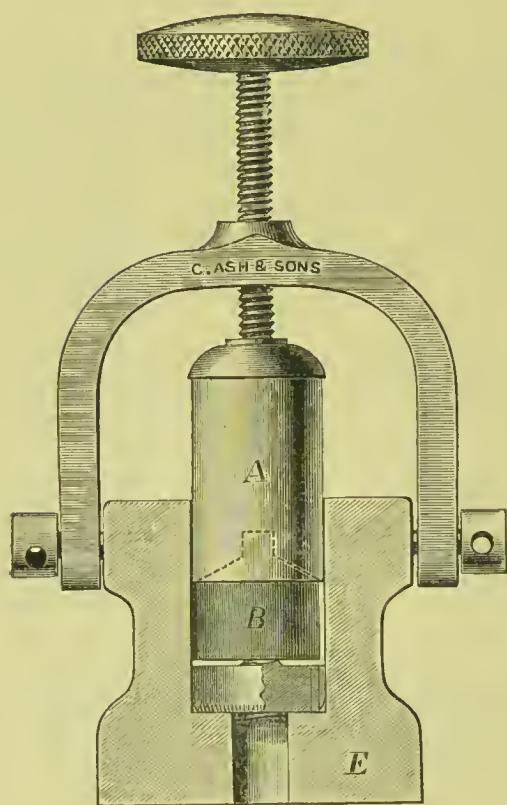


The box contains the following shades: Bodies, NB/1 Light, B/1 Light, B/3 Light, C/2 Light, D/2 Dark, E/2 Light, and F/2 Dark; Enamel, 159B Light.

Box containing seven bottles of Mineral Body, one bottle of Gum Enamel, Nickel-plated Spatula, and Camel-hair Pencil complete s. d. 15 0

ASH'S INLAY SWAGER.

(REGISTERED. REG. NO. 334,144.)



TWO-THIRDS SIZE.

A—Plunger. *B*—Water Bag.

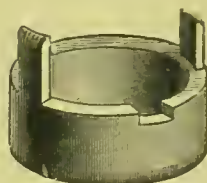
E—Section of Swager.

The upper half (*B*) of ring is shown under Water Bag.

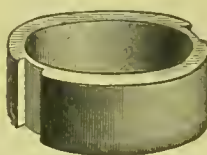
INLAY-MOULD RING.



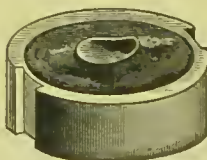
Ring complete.



A—Lower half of ring.



B—Upper half of ring.



Full matrix swaged into the mould of Spence metal.

PRICES:

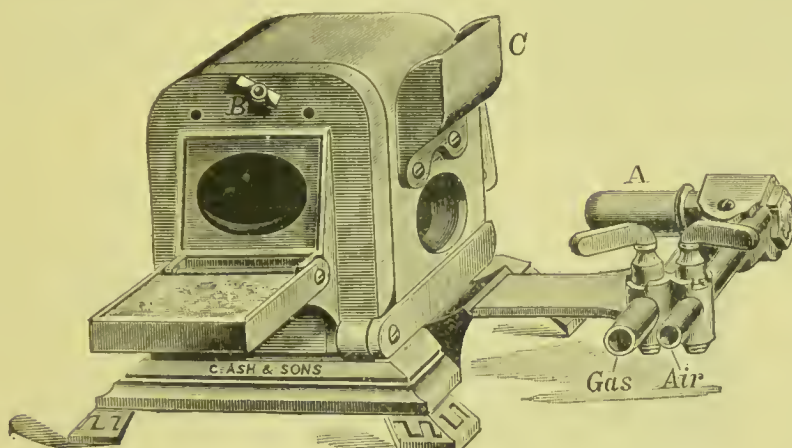
	s.	d.
Inlay Swager, with two Water Bags	12	6
Extra Water Bags each	0	9
Ash's Inlay-Mould Ring	1	6

Booklet on Ash's Method of making the Matrix for Irregular-shaped Inlays sent, post free, on application.

ASH'S No. 2 GAS FURNACE.

FOR INLAYS, CROWNS, AND SECTIONS.

(MANUFACTURED FOR US BY FLETCHER, RUSSELL & Co.) Registered. Reg. No. 326,329.



Size all over, outside measurements : 12 in. long, including blast burner ; $6\frac{1}{2}$ in. wide ; $5\frac{3}{4}$ in. high. Size of the oval Nickel Muffle, $4\frac{1}{2}$ in. long ; $1\frac{3}{8}$ in. high.

This is the most powerful small Gas Furnace that has ever been designed for Inlay, Crown, and Bridge Work. Every kind of Gum Body and Enamel can be perfectly fused in it with the greatest ease.

To work it efficiently, under all conditions, a half-inch gas supply with clear-bore tap is necessary, and Fletcher's size 5 Bellows should be used, the rubber disc of which should be kept well inflated to ensure a strong, steady blast. Very little exertion is required to do the blowing.

PRICES :

Ash's No. 2 Furnace, complete, with Nickel Tray, one extra oval			
Nickel Muffle, one tin Investing Material, and Repairing	£	s.	d.
Outfit consisting of Silicate of Soda and Fireclay	3	15	0
Extra Nickel Muffles each	0	7	6
" " Trays "	0	1	0

ASH'S No. 2 FURNACE,

WITH GENERATOR TO PRODUCE AIR-GAS.

FOR USE IN PLACES WHERE THERE IS NO SUPPLY OF COAL-GAS.

PRICES :

	£	s.	d.
Furnace, with accessories as above	3	15	0
Generator	1	15	0
Bellows, Fletcher's size 5, Fig. 9B	1	16	6

India-rubber Tubing is charged extra, according to length required.

CHRISTENSEN'S DRAUGHT GAS FURNACE

For INLAYS, CROWNS, and BRIDGES.

(REGISTERED. REG. NO. 362,761.)

NO BLOWER REQUIRED.

With a half-inch gas supply and clear-bore taps the Furnace will fuse our High-Fusing Mineral Bodies in from four to five minutes, starting all cold—our Low-Fusing in less time.

GIVES A PERFECTLY UNIFORM HEAT.

NEEDS NO UNUSUAL ATTENTION
WHATEVER.

Muffle, 3 in. long; $1\frac{1}{4}$ in. high; $1\frac{1}{2}$ in. wide. Height of Furnace, $11\frac{1}{2}$ in.; width, 7 in.; depth, $5\frac{1}{2}$ in.; weight, $7\frac{1}{2}$ lbs. Chimney, 18 in. long.

DIRECTIONS FOR USE :

The Burner should be lifted out of the Furnace, lighted outside, and then put back; on no account should it be lighted from the top of the Chimney.

It should be turned full on from the commencement of firing.

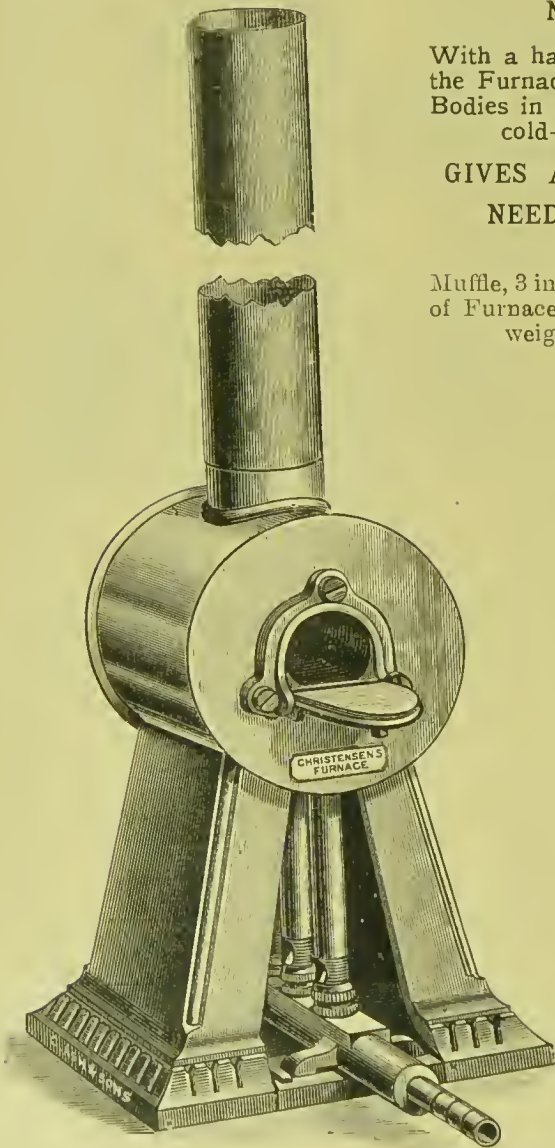
When the firing is nearly completed the Furnace door may be left open for the purpose of observing the work. Upon the completion of the firing the door should be closed again, and kept closed until the Furnace has cooled down.

PRICES :

Furnace with Nickel		
Muffle, Nickel Tray,	s.	d.
and Burner . . .	65	6
Ash's Fine Investing		
Material . . per tin	0	9

Parts separately :

Nickel Muffle . . .	3	6
„ Tray . . .	1	0

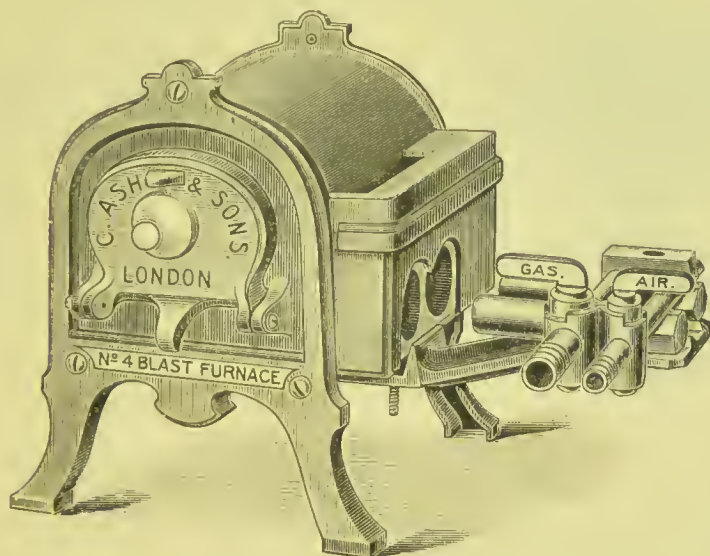


ASH'S No. 4 BLAST FURNACE

FOR BRIDGES AND FULL SETS OF CONTINUOUS-GUM WORK.

(Registered design.)

MADE FOR US BY MESSRS. FLETCHER, RUSSELL & Co.



⁷Size all over, outside measurements—12 in. long, including double blast burner 15½ in. wide; 10½ in. high.

Size of oval Nickel Muffle, $5\frac{1}{4}$ in. long ; $1\frac{3}{4}$ in. high.

Allen's or any other High-Fusing Gum Body can be fused with ease in this Furnace. It is as powerful in every way as our No. 2 Blast Furnace, and in its construction we have succeeded in securing uniform heat all over the muffle during the firing of the work.

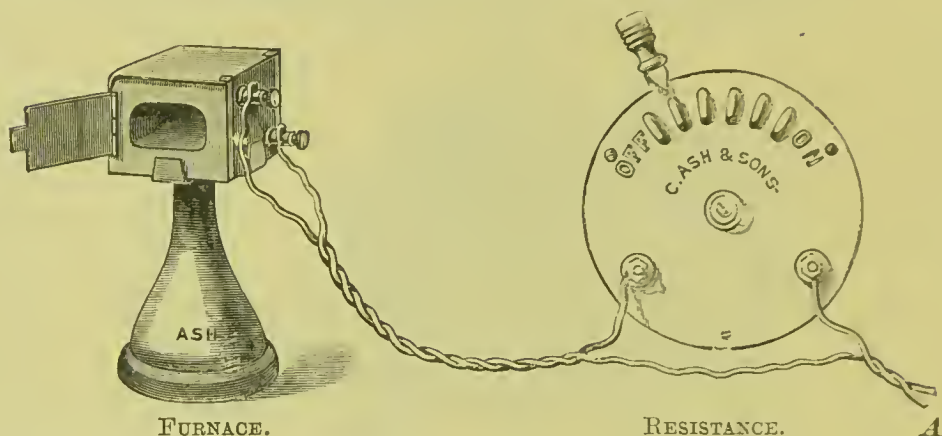
To work it efficiently, under all conditions, a half-inch gas supply with clear-bore tap is necessary, and Fletcher's size 5 Bellows should be used, the rubber disc of which should be kept well inflated to ensure a strong, steady blast. Very little exertion is required to do the blowing.

PRICES:

Furnace complete, with Nickel Tray, one extra Nickel Muffle, one tin Investing Material, and Repairing Outfit consisting of Silicate of Soda and Fireclay	£	s.	d.
Extra Nickel Muffles each	0	12	6
” ” Trays „	0	2	0
Fletcher's Bellows, Fig. 9B, size 5 „	1	16	6

India-rubber Tubing is charged extra, according to length required.

MITCHELL'S ELECTRIC FURNACES, Nos. 1 and 2, WITH SMALL RESISTANCE.



The illustration shows the wires from the Resistance and the source of supply *A* connected to the Furnace.

By using this Resistance, with either size of Mitchell's Small Furnaces, the heat can be gradually raised or lowered at will. It thus adds to the usefulness and safety of a Furnace, inasmuch as it greatly lessens the risk of breaking the Muffle wires, such as attends the sudden switching off of the current from full pressure; moreover, by slow cooling down, toughness is secured in the fired mineral body or enamel.

The Resistance is of the well-known Iron and Enamel type, the main feature in which is the embedding of the wires in the enamel to prevent corrosion by exposure to the air. It should be screwed to the wall, or in any other suitable vertical position, so that the air can freely pass behind it and carry off the heat generated. —

No. 1 FURNACE.

For Inlays and Crowns.

Size of Muffle, $2\frac{1}{4} \times \frac{7}{8} \times \frac{7}{8}$ inch.
Height on stand, 6 inches.
Current absorbed, 200 watts.

No 2 FURNACE.

For Inlays, Crowns, and Bridges.

Size of Muffle, $2\frac{3}{8} \times 1\frac{1}{2} \times \frac{7}{8}$ inches.
Height on stand, 6 inches.
Current absorbed, 250 watts.

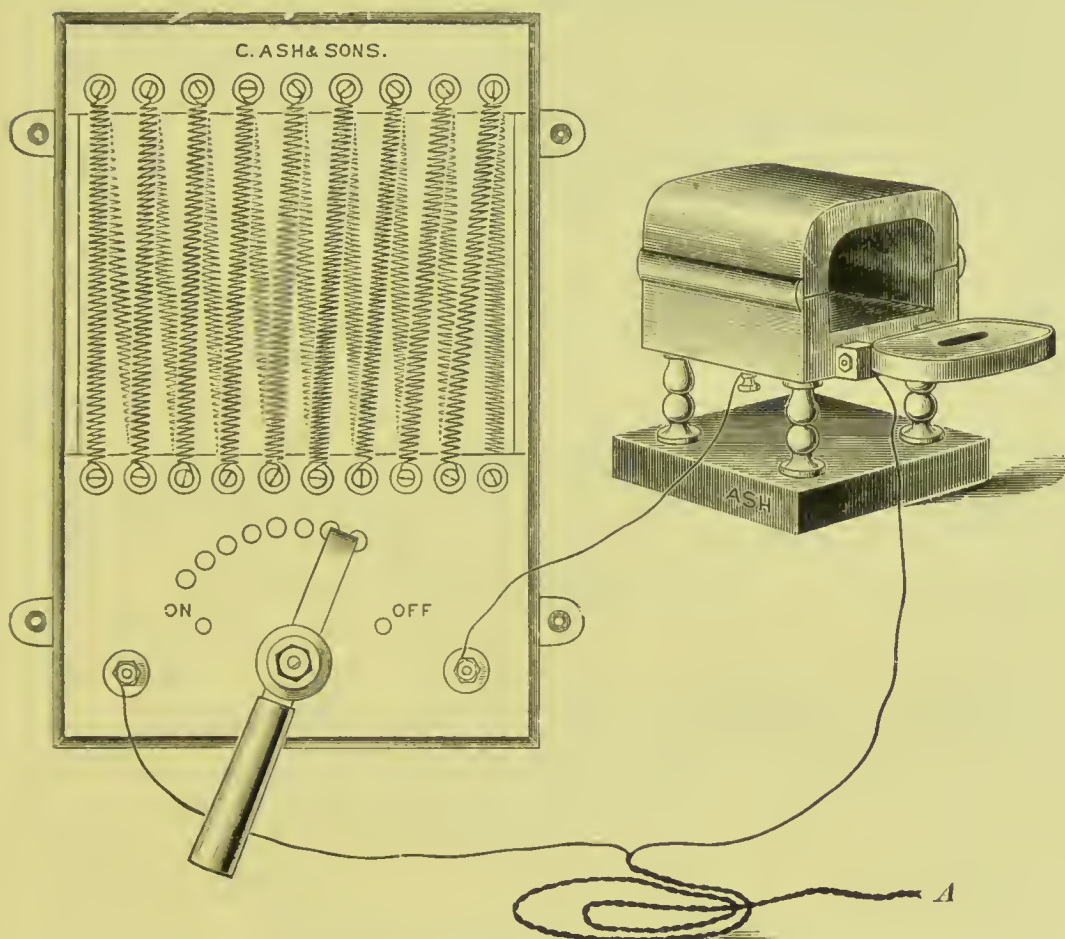
PRICES :

	£	s.	d.
No. 1, complete with accessories, for any voltage	2	2	6
„ 2, „ „ „ „ „ „	2	7	6
„ 2, „ specially wound for fusing Allen's Body	3	2	6
Resistance	0	12	6

*In ordering the Resistance, state for which Furnace it is
required and for what voltage.*

MITCHELL'S ELECTRIC FURNACE No. 3.

FOR CONTINUOUS-GUM SECTIONS AND FULL SETS.



Inside measurement of muffle, 3 $\frac{1}{4}$ inches long, 3 inches wide, and 1 $\frac{1}{2}$ deep.

A—Wires leading to source of supply.

Each coating of our High-Fusing Mineral Body or Gum Enamel which is used for an upper or lower denture can be fused in this Furnace in about fifteen minutes. The Furnace is provided with an air-jacket which materially conserves the heat produced, and there is a small slot in the hinged lid through which every part of the work in the muffle can be seen. Uniform heat is produced all over the muffle; the possibility of fusing one part of the work before another is thus avoided. Further, the heat can always be got up at a fixed uniform rate; the time required for any particular class of work can therefore be very accurately gauged. The resistance supplied with the Furnace permits of the heat being varied as desired, for drying the work, or for warming up metal plates ready for soldering, etc. After using the Furnace, the Switch Lever should be placed on the last contact for a few minutes before it is finally switched off. This will allow the Furnace to cool down gradually. If the current is suddenly switched off from full power, the sudden contraction through cooling too quickly may cause breakage of the platinum wires or other parts.

	£	s.	d.
Price of Furnace, complete with Resistance and Wires	8	0	0
The same, specially wound for melting Allen's Body	8	8	0

In ordering, state Voltage for which Furnace is required.

POWDERED FIRECLAY,

FOR REPAIRING GAS FURNACES AND FOR LUTING-IN NICKEL
MUFFLES.

In 1-lb. tins	per tin	s. d.
		0 6

LIQUID SILICATE OF SODA,

FOR MIXING WITH POWDERED FIRECLAY WHEN REPAIRING THE
CLAY PARTS OF GAS FURNACES.

Price	per bottle	s. d.
		0 9

KAOLIN,

FOR REPAIRING ELECTRIC FURNACES.

Price	per tin	s. d.
		0 9

ASH'S FINE INVESTING MATERIAL,

FOR USE IN PORCELAIN-FUSING FURNACES WHEN MAKING INLAYS,
CROWNS, BRIDGES, OR FULL SETS OF CONTINUOUS-GUM WORK.

Directions: Use as supplied in the form of dry powder.

Price	per tin	s. d.
		0 9

ASH'S COARSE INVESTING MATERIAL,

FOR USE WHEN MAKING BRIDGES, GUM SECTIONS, AND
PORCELAIN FACINGS.

Directions: Make into a batter when using.

In 2-lb. tins	per tin	s. d.
		2 0

ASH'S MIXING LIQUID,

FOR PORCELAIN WORK.

Price	per 2-oz. bottle	s. d.
		0 6
„	in 6-oz. sprinkler bottle	2 0

ASH'S VULCANIZING COMPOUND.

A MIXTURE OF PLASTER OF PARIS AND SAND, FOR USE IN
VULCANIZING DENTAL RUBBER TO CONTINUOUS-GUM WORK.

In 7-lb. tins	per tin	s. d.
		2 0

ASH'S INVESTING COMPOUND,

FOR SOLDERING PURPOSES.

In 7-lb. tins	per tin	s. d.
		1 9

ARTICLES, VARIOUS.

Ash's Mineral Tube Crowns—Centrals, Canines, Bicuspid, and Molars each	£	s.	d.
Nash's Pins in Dental Alloy for above „	0	1	0
„ „ Platinum for above „	0	0	9
Socket Handle (Balkwill's) for holding Pin while bending „	0	2	9
Davis' Crowns—Centrals, Laterals, Canines, and Bicuspid „	0	1	6
Separately: Crown less Pin „	0	1	8
Single Pin. „	0	1	6
Double „ „	0	0	3
Logan Crowns—Centrals, Laterals, Canines, and Bicuspid „	0	0	5
„ „ Molars „	0	2	6
Extra Pins for Logan Crowns, made of Platinum . . „	0	2	9
Ash's Mineral Inlay Rods, ground and trued „	0	1	11
„ „ „ „ left as moulded „	0	1	6
„ „ „ „ extra large, left as moulded „	0	0	3
Dall's Mineral Inlays, left as moulded „	0	1	3
„ „ „ per packet of 25 assorted	0	0	4
Porcelain Cavity Stoppers, left as moulded each	0	7	6
Robins' Tapered Inlay Outfit, complete	2	0	4
Ash's Inlay Conveyer	0	18	6
Ash's Inlay Impression Cups—Handle and 2 Cups . per set	0	1	6
Dowsett's „ „ „ in pairs . . . per set of 5	0	3	6
Hughes' „ „ „ Handle and 3 Cups . per set	0	7	0
Diamond Burs assorted shapes each	0	4	9
„ Fissure Dises large and small „	0	2	6
„ Drill	0	2	6
Jenkins' Porcelain Enamel Outfit	0	3	6
<i>Separate parts:</i>			
Porcelain Enamel per $\frac{1}{4}$ -oz. bottle	0	12	10
Ivory Fan of 18 Shades	0	10	0
Investing Material per box	0	0	0
Melting Cup for Inlays	1	2	0
„ „ Pivot Teeth.	1	0	0

IMPERIAL GOLD FOIL
EXTRA SOFT

1/8 oz. N° 4

Manufactured from a
Specially Prepared PRECIPITATE
OF PURE GOLD.

CLAUDIUS ASH & SONS
LIMITED

6, 7, 8 & 9, BROAD STREET, GOLDEN SQUARE,
LONDON, W.

BRANCH ESTABLISHMENTS.

LIVERPOOL, 83, Mount Pleasant. MANCHESTER, 118, Oxford Street.
PARIS, 22, Rue du 4. Septembre. BERLIN, 68, Jägerstrasse.
HAMBURG, 62, 63, Gänsemarkt. VIENNA, 1, Spiegelgasse 2.
COPENHAGEN, 3, Boldhusgade. ST. PETERSBURG, 19, Kleine Morskoi
NEW YORK, 30, East Fourteenth Street.

FABRUES & CO LONDON, W.

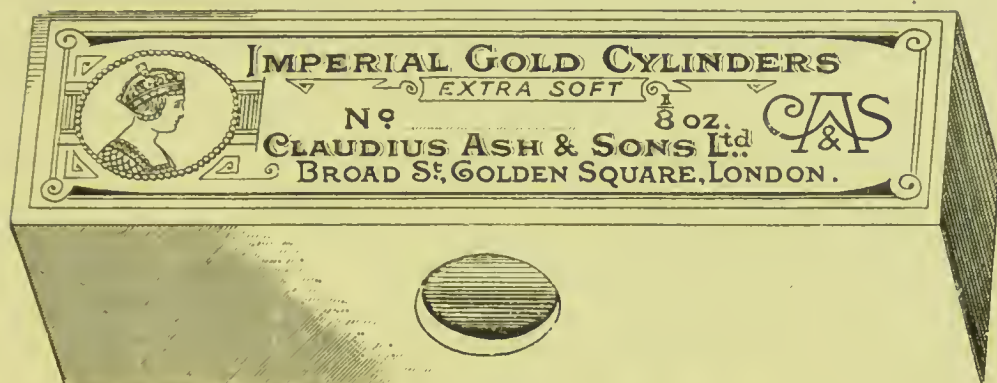
ASH'S IMPERIAL GOLD FOIL.

This Foil is manufactured from a specially prepared Precipitate of Pure Gold, and is perfectly Non-Cohesive. Being very soft it lends itself to the closest packing. It can be rendered Cohesive by annealing before use.





		s.	d.
Nos. 4, 5, 6, 8	per 1/8 oz.	16	6
„ 4, 5, 6, 8	per oz.	128	0

Higher numbers supplied to order.

ASH'S GOLD CYLINDERS.







Made from the same Gold as the Foil on the previous page.





In Sizes							
		1	2	3	4	s.	d.
Price per oz.	.	.	.	.	.	128	0
"	" $\frac{1}{8}$ oz.	.	.	.	.	16	6




STYLE A.—Loosely Rolled.

In Sizes							
		1	2	3	4	s.	d.
Price per oz.	.	.	.	.	.	128	0
"	" $\frac{1}{8}$ oz.	.	.	.	.	16	6

STYLE C.—Extra Dense.

In Sizes							
		1	2	3	4	s.	d.
Price per oz.	.	.	.	.	.	128	0
"	" $\frac{1}{8}$ oz.	.	.	.	.	16	6

NOTE.—All our Cylinders can be made cohesive by annealing before using.

<h2 style="margin: 0;">GOLD SOLDER.</h2> <h1 style="margin: 0; font-family: cursive;">Claudius Ash & Sons Ltd</h1>		
<p>Central Dépôt. 5, 6, 7, 8 & 9, BROAD STREET, GOLDEN SQUARE LONDON ENGLAND.</p>		<p>Branches, MANCHESTER LIVERPOOL PARIS. BERLIN. HAMBURG. VIENNA. COPENHAGEN. CHRISTIANIA. STOCKHOLM. ST PETERSBURG. MOSCOW.</p>

ASH'S No. 00 GOLD SOLDER.

FOR CROWN, BAR, AND BRIDGE WORK.

	s.	d.
Price per oz.	68	0

This Solder is prepared from a highly approved formula, and gives universal satisfaction. Its colour enables it to be used with the highest grade golds.

SOLD IN ENVELOPES AS ABOVE.

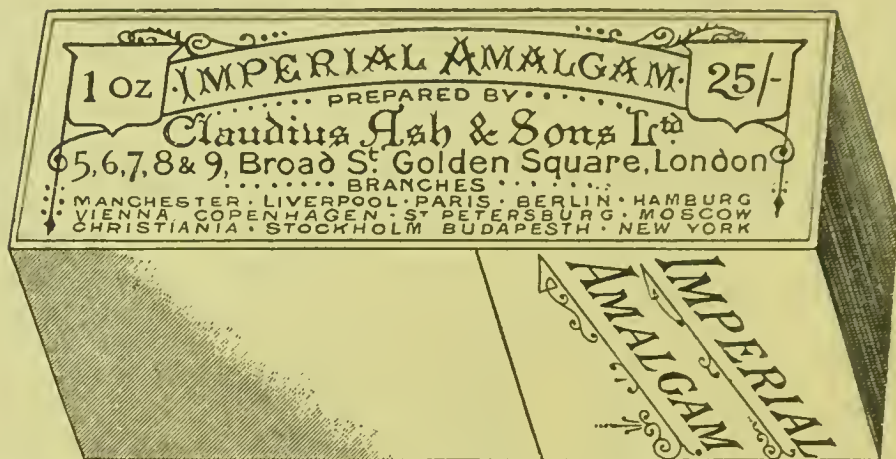
ASH'S SOLDERS FOR PLATE WORK.

	s.	d.
No. 1. Best Quality per oz.	63	0
„ 2. Medium „ „	57	0
„ 3. Most Fusible „	50	0

These Solders are much esteemed for their liquidity when in a state of fusion, and for the perfect union which they effect. Being prepared with the greatest care from old and well-proved formulæ, we can guarantee their purity and especially recommend their colour.

	s.	d.
Fine Gold, flatted thin, for soldering Platinum per oz.	92	0

ASH'S IMPERIAL AMALGAM.



SUPPLIED IN OUNCE, HALF-OUNCE, AND QUARTER-OUNCE BOTTLES.

	s.	d.
Price per oz.	25	0
" " $\frac{1}{2}$ oz.	12	6
" " $\frac{1}{4}$ "	6	3

ASH'S BEST QUALITY AMALGAM.

(Known as Filings for Metallic Paste.)

10z. 22/-

Best Quality.

Filings for
Metallic Paste
 FOR STOPPING TEETH

C. ASH & SONS, LTD

5, 6, 7, 8 & 9, Broad Street, Golden Square, LONDON, ENGLAND.

BRANCHES

LIVERPOOL, MANCHESTER, PARIS, BERLIN, HAMBURG, VIENNA,
 COPENHAGEN, STOCKHOLM, CHRISTIANIA,
 ST PETERSBURG, MOSCOW, BUDA PESTH & NEW YORK.

Supplied in $\frac{1}{4}$ -oz., $\frac{1}{2}$ -oz., and 1-oz. Envelopes . . . per oz.	22	0
" " $\frac{1}{2}$ -oz. and 1-oz. Bottles	22	0

A discount of 10 per cent. is allowed off 5 ounces.

ASH'S C.A.S. ALLOY.



Supplied in
Quick-Setting
and
Slow-Setting.

In ordering, please
state which is re-
quired.

C. A. S. ALLOY possesses good edge strength and keeps its colour well. The Quick-Setting sets more rapidly than the very plastic alloys, hence we advise that the cavity be fully prepared and the required instruments be conveniently placed, so that the Operator will have nothing to do but pack the cavity after the alloy is mixed.

Directions for use enclosed in each packet.

Supplied in boxes as under :—		s.	d.
Half-ounce		6	3
One ounce		12	6
Five ounces		52	0

ASH'S SECOND QUALITY AMALGAM.

(Known as Filings for Metallic Paste.)

This Amalgam has been in use for over forty years, and the sale increases every year, so that it has become an established stopping. It is composed of unobjectionable metals, and requires but a small quantity of Mercury to make it into a paste; it soon sets in the tooth, and will take a high polish, and does not change colour or decompose in the mouth. It is unequalled by any Amalgam which is sold at a similar price.

	s.	d.
In $\frac{1}{2}$ -oz. and 1-oz. Envelopes per oz.	9	6
„ „ Bottles „	9	6

Directions for use accompany each packet.

A discount of 10 per cent. is allowed off 5 ounces.

ASH'S GOLD SPRINGS.

16-carat , sizes 7 (weakest), 8, 9, 10, 11, 12, 13, 14 (strongest).	s.	d.
Price per oz.	76	0
„ under an Ounce „	80	0
13-carat , sizes $6\frac{1}{2}$ (weakest), $7\frac{1}{2}$, $8\frac{1}{2}$, $9\frac{1}{2}$, and $10\frac{1}{2}$ (strongest).		
Price per oz.	65	0
„ under an Ounce „	70	0

Great care is bestowed upon the Manufacture of the above Springs, in order to obtain perfect elasticity and uniformity of strength. They have been extensively used by the Profession for the last sixty years.

SPRINGS FOR TRYING-IN, ETC.

Silver per pair	s.	d.
„ Gilt „	1	8
(A discount of 10 per cent. is allowed off 12 pairs of the above.)	2	8
Steel Gilt per 6 pairs	2	6

ASH'S GOLD AND OTHER SWIVELS AND WASHERS.

Gold Swivels, 16-carat per set	s.	d.
„ 13-carat „	9	0
„ with Dental-Alloy Stems „	7	0
Dental-Alloy Swivels „	6	0
„ „ per 6 sets <i>net</i>	4	0
Silver Swivels per set	21	0
5 per cent. discount is allowed off 12 sets of the 16- and 13-carat gold swivels; 10 per cent. off 12 sets of all the other kinds.	2	0
Gold Washers, 16-carat per set	1	0
Dental-Alloy Washers „	0	4

ASH'S TIN CYLINDERS.

In sizes 1, 2, 3, 4 per $\frac{1}{4}$ -oz. pkt.	s.	d.
Sample boxes containing all sizes „	5	0

TIN FOILS.

Ash's Nos. 4, 6, 8 per book	s.	d.
S. S. White's Extra tough, Nos. 4, 6, 8, 10, 14, 18, 20 „	1	9
„ Globe, Nos. 4, 6, 8, 10, 14, 18, 20 „	1	9
	2	0

OLD METALS.

Full intrinsic value allowed for Old Gold, Silver, Platinum, etc., either in large or small quantities.

NOTE.—It is particularly requested that all parcels of Old Metals be advised by letter, and clearly marked with the name of sender.

ASH'S FOILS AND CYLINDERS.

	per $\frac{1}{8}$ oz.	per oz.
	s. d.	s. d.
Soft Non-Cohesive Foil, sizes 3, 4, 5, 6, 8	16 3	125 0
Cohesive Foil, sizes 3, 4, 5, 6, 8.	16 3	125 0
Soft Non-Cohesive Cylinders, sizes 1, 2, 3, 4	16 6	128 0
Cohesive Gold Pellets :		
Square, sizes 1, 2, 3, 4	16 6	128 0
Pyramidal, sizes 1, 2, 3	16 6	128 0

WOLRAB'S GOLD FOIL AND CYLINDERS.

	per $\frac{1}{8}$ oz.	per oz.
	s. d.	s. d.
Foil, sizes 4, 5, 6, $7\frac{1}{2}$, 8, 10	16 3	125 0
Cylinders, sizes 0, 1, 2, 3, 4, 5	16 6	128 0

GOLD ROLLS, FOILS, PELLETS, ETC.

	per $\frac{1}{8}$ oz.	per oz.
	s. d.	s. d.
Herbst's Universal Gold Rolls, sizes 0 to 5, or assorted	16 0	124 0
Nedden's Sponge Gold per packet	17 0	—
Nickold's Improved Soft Gold Foil	16 3	125 0
„ Pellets, Triangular and Flat	16 6	128 0
S. S. White's Moss Fibre Gold	16 8	125 0

AMERICAN GOLD FOILS, CYLINDERS, ETC.

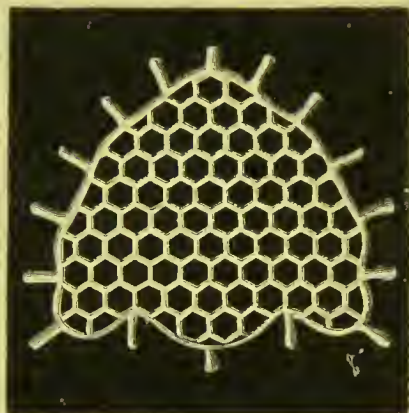
	per $\frac{1}{8}$ oz.	per oz.
	s. d.	s. d.
Pack's Gold Cylinders, semi-cohesive or soft	14 7	112 6
S. S. White's Quarter Century	16 6	128 0
„ Globe	16 6	128 0
„ Standardised Gold Foil	14 7	112 6
Watt's Crystal Gold, Strip, Mat, or Bulk form	17 6	135 0
Williams' Standard Gold Foil	14 7	112 6
„ „ „ Cylinders	16 8	120 10

Other Gold Foils, Cylinders, Pellets, etc., obtained to order.

WALKER'S PATENTED STRENGTHENERS FOR VULCANITE DENTURES.

The most scientific Strengtheners ever made.

UPPER.



Actual size—Front view.

LOWER.



Actual size—Front view.

FEATURES :

1. They more than double the strength of vulcanite dentures ;
2. They do not cut through the vulcanite ;
3. They are so interlocked in the vulcanite that perfect union is secured.

PRICES :

		s.	d.
Upper, in Aluminium	per doz.	6	0
„ Palladium Alloy	each	2	6
„ 16-carat Gold, Thin	„	5	0
„ „ „ Thick	„	6	0
Lower, in Palladium Alloy	„	3	3
„ 16-carat Gold	„	5	6

JÜTERBOCK'S GOLD STRENGTHENERS.

UPPER.



No. 1.

LOWER.



No. 7.

WITH DENTAL-ALLOY BAR.

These illustrations give the general form.

Prices . . .	Upper	6/0	5/9	5/6	5/3	4/6	10/0	10/6	11/0	12/0
	Nos.	1	2	3	4	5	9	10	11	12
„ . . .	Lower						5/3	5/9	6/6	7/6
	Nos.						6	7	8	8A

Jüterbock's French Patterns also kept in stock.

Prices on application.

JACOB'S

PERMANENT GUTTA=PERCHA STOPPING.

(From the formula of H. L. JACOB, M.R.C.S.)

Jacob's Permanent Stopping is the purest, toughest, most tenacious, and most wear-resisting preparation of Gutta-Percha that has ever been made. Its great durability and general excellence have been recognised by the Profession for upwards of forty years.

Supplied in Tablets and in cylindrical Pellets, each packet sufficing for more than one hundred average fillings, in the following shades :—

No. 1.—Whitish.

No. 2.—Brownish, for teeth that are somewhat discoloured.

Directions for use enclosed in each Packet.

	<i>s.</i>	<i>d.</i>
Either kind, containing 2 dwts. per packet	4	0

ASH'S GUTTA=PERCHA PELLETS.

PREPARED IN TWO COLOURS—LIGHT PINK AND WHITE.

	<i>s.</i>	<i>d.</i>
Price, either kind per bottle	2	0

ASH'S GLOBE GUTTA=PERCHA.

FOR FILLING TEETH, SEALING IN DRESSINGS, SEPARATING TEETH,
PRESSING GUM AWAY FROM ROOTS THAT ARE TO BE
CROWNED, ETC.

	<i>s.</i>	<i>d.</i>
In 1-oz. boxes, pink, grey, or assorted per box	2	0

GUTTA=PERCHA STOPPINGS.

	<i>s.</i>	<i>d.</i>
Ash's Temporary per oz.	2	0
Caulk's. In Tablets, Pellets, and Cylinders ; also in Points for root-filling. In $\frac{1}{2}$ -oz. boxes "	8	0
Excelsior Gutta-Percha in Sticks. In $\frac{1}{2}$ -oz. boxes "	4	2
" " in Pellets. " " " " " " " " " " " "	4	2
Flagg's Hand-made Gutta-Percha, High-grade. per packet	4	2
" " Medium-grade and Low-grade " " " " " " " " " " " "	4	2
Gilbert's Temporary "	2	0
Hill's Gutta-Percha in Tablets. In $\frac{1}{2}$ -oz. boxes per oz.	16	0
Premium " in Sticks. In $\frac{1}{2}$ -oz. boxes " " " " " " " " " " " "	4	2
" " in Pellets " " " " " " " " " " " "	4	2

GUTTA=PERCHA NERVE-CANAL POINTS.

	<i>s.</i>	<i>d.</i>
Price, in boxes containing 150 per box	1	0

ASH'S C. A. S. CEMENT

(Oxyphosphate of Zinc).



NOTED FOR THE FOLLOWING QUALITIES:

EASY WORKING; EXTRAORDINARY HARDNESS; GREAT POWER OF RESISTANCE TO THE FLUIDS OF THE MOUTH; FREEDOM FROM SHRINKAGE AND EXPANSION; COMPLETE ADHESION TO THE WALLS OF THE CAVITY.

Prepared in Six Shades: White, Pale Yellow, Yellow, Pearl Grey, Grey, and Brown.

SAMPLE PACKET ON APPLICATION.

Box containing one bottle Liquid and 30 grammes Powder . . .	per box	s. d. 5 0
Separately { Powder	per bottle	3 0
{ Liquid	"	2 0
Box containing large bottle Liquid and 50 grammes Powder . . .	per box	8 0
Separately { Powder	per bottle	5 0
{ Liquid	"	3 0
Box containing two bottles Liquid and four 10-gramme bottles Powder—		
White, Pale Yellow, Pearl Grey, Grey	per box	8 0
Separately { Powder	per bottle	2 0
{ Liquid	"	1 0

{DIRECTIONS FOR USE ENCLOSED IN EACH BOX.

NOTE.—The Liquid does not become turbid with age. To preserve its qualities unimpaired, it is advisable to keep the stopper in the bottle when not in use.

CEMENT STOPPINGS— VARIOUS.

Ash's Phosphate , in 5 shades : <i>A</i> —Pale Yellow ; <i>B</i> —Pale Grey ;		
<i>C</i> —Light Yellowish Grey ; <i>D</i> —Dark Yellowish Grey ;	s. d.	
<i>E</i> —Greenish Grey any shade per box	6	0
„ „ „ „ „ 4-shade packet	8	0
Ash's Oxychloride of Zinc , for filling root-canals. . . per box	4	0
„ Enamel , in 5 shades any shade „	8	0
„ „ 5-shade packet	10	6
„ Excelsior , whitish yellow per box	6	0
„ Rock , in 5 shades any shade „	6	0
„ „ 3-shade packet	8	0
Caulk's Diamond Cement , as under :		
Four Colours and Liquid—Grey, Yellow, Medium, and Light		
per packet	6	3
Two Colours and Liquid—Grey and Yellow . . „	5	3
One Colour and Liquid—Grey, Yellow, Medium,		
or Light „	3	2
Dirigo Enamel , in 4 shades. A Non-Conducting and Antiseptic		
Oxyphosphate. Any shade, with bottle of Antiseptic		
Germicide per packet	10	0
„ „ „ „ „ 4-shade „	10	6
Dirigo Germicide per bottle	1	9
Fletcher's Artificial Dentine (Oxysulphate of Zinc) , unequalled		
for the following purposes : Capping exposed pulps ; fixing		
loosened teeth while filling with gold ; enclosing dressings, etc.		
per packet	4	0
Fletcher's Porcelain „	6	0
„ White Enamel „	6	0
„ Colouring Matter —Pink, Drab, or Blue . per tube	0	6
„ Copal Ether Varnish per bottle	1	0

CEMENT STOPPINGS—*continued.*

(VARIOUS.)

	s.	d.
Fossiline per packet	6	6
Harvard Cement, in 12 shades „	8	0
„ „ 4-shade packet	10	6
Poulson's Neue Mineral Plombe, in 12 shades :		
In packets containing 30 grammes Powder and necessary		
Fluid per packet	7	6
In packets containing 4 shades Powder and one		
Fluid „	10	6
Poulson's Phosphat-Plombe, in 5 shades „	5	0
„ „ 4-shade packet	7	6
„ Granit-Plombe, in 6 shades :		
In packets containing Powder and Liquid per packet	8	0
Pulpinoform, a Non-Conducting Formalin Cement „	6	0
Weston's Insoluble Cement „	2	1
„ „ „ 2 shades in box „	3	2
„ „ „ 4 shades in box „	3	2
„ „ „ Liquid separately . . . per bottle	1	1
Other Cement Stoppings supplied to order.		

DRESSINGS, Etc.

	s.	d.
Baldock's Antiseptic Tooth Dressing per packet	4	0
Filmogen, for varnishing osteo-stoppings, for lining cavities, and		
for root filling per 1-oz. bottle	1	6
„ „ „ „ „ „ 2-oz. „	2	9
Filmogen, with 10 per cent. Iodoform, for root filling, etc.		
„ „ „ „ „ „ per 1-oz. bottle	1	9
Mastic Cement, thick, for temporary stoppings . . . per bottle	0	6
„ „ thin, for fixing teeth, etc. „	0	9
Sandarac Varnish, for coating osteo-stoppings . . . „	0	10

ASH'S MORRISON DENTAL CHAIR,

WITH

TILTING LEVER, suggested by Mr. CLAUDE ROGERS.



LOWEST POSITION.

The Morrison Chair has a range of $23\frac{1}{2}$ inches, starting from the low position of $17\frac{1}{2}$ inches.

It is a strong, steady Chair with many useful movements.

It is upholstered in best quality plush and carpet, all the bright parts are nickel-plated, and the framework is japanned black, relieved with plain-line ornamentation.

	£	s.	d.
Price, in Maroon or Green Plush	16	0	0
Packing Case (returnable) extra	1	0	0

ASH'S MORRISON HOSPITAL CHAIR.

The Chair shown above is also supplied with Carved Wooden Seat, Wooden Arms and Back, and Head-Rest covered with Leather-Cloth. We can most confidently recommend it. It is exceedingly strong and will not readily get out of order.

Price	£	s.	d.
	12	5	0
	E 2		

ASH'S PATENTED LONG=RANGE PUMP CHAIR.

With improved Short Back, $14\frac{1}{2}$ inches deep, which can be lowered on to the Seat.

FEATURES:

RANGE—The Chair has a range of 19 inches. At its lowest position the seat is 16 inches from the floor, and at its highest 35 inches.

COMFORT AND CONVENIENCE—It is very comfortable and convenient in use to both patient and operator.

QUALITY AND WORKMANSHIP—For high-class quality, excellence of workmanship, external and internal finish, it is unsurpassed.

MOVEMENTS—It possesses all the movements that can be desired by the dental surgeon.

ADVANTAGES:

1. It rotates from the floor plate, consequently all the levers are carried round with it, and are behind it in whatever position it may be.

2. All the internal working parts are well protected from dust.

The Chair is made in two styles, as under :

1. With simple Foot-Rest, as shown on page 55.
2. With extending Foot-Rest, as shown on opposite page.

In all other respects the two styles are identical.

It is kept in Stock in Maroon Plush, but it can be had to order in Plain Green Plush, or in Figured Plush, or in Morocco Leather.

We keep Seven Varieties of Figured Plush in Stock, also a nice variety of Saddle-Bags and Morocco Leathers, patterns of which may be had for selection on application.

ASH'S PATENTED LONG-RANGE PUMP CHAIR.



LOWEST POSITION.

	PRICES:			Style No. 1 with simple Foot-Rest.			Style No. 2 with Foot-Rest as illustrated.		
	£	s.	d.	£	s.	d.	£	s.	d.
Chair in Maroon Plush with Roll Head-Rest, as illustrated, or with Simple Head-Rest . . .	28	10	0	30	10	0			
The same with Wilkerson's Head-Rest . . .	29	10	0	31	10	0			
„ „ Denham's No. 1 Extending Head- Rest	29	15	0	31	15	0			
„ „ „ No. 2 or No. 3 ditto . . .	31	5	0	33	5	0			
Any of above covered with Figured instead of Plain Plush	extra	0	15	0					
„ „ Morocco Leather „ „ „		0	15	0					
Packing-Case (returnable)		1	0	0					

ASH'S PERFECTED PUMP CHAIR.

(SEE OPPOSITE PAGE.)

No. 1.—With Simple Foot-Rest.

Chair in Maroon or Green Plush with Roll Head-Rest, or	£	s.	d.
with Simple Head-Rest, as shown on page 55	24	0	0
The same with Wilkerson's Head-Rest	25	0	0
„ „ Denham's No. 1 Extending Head-Rest	25	5	0
„ „ „ No. 2 or No. 3 Extending Head-Rest	26	15	0
If covered with Figured instead of Plain Plush . . . extra	0	15	0
„ „ Morocco Leather instead of Plain Plush „	0	15	0
Packing Case (returnable)	1	0	0

No. 2.—With Extending Foot-Rest.

Chair in Maroon or Green Plush with Long Seat, Roll Head-	£	s.	d.
Rest, as shown on page 53, or with Simple Head-Rest, as			
shown on page 55	26	0	0
The same with Wilkerson's Head-Rest	27	0	0
„ „ Denham's No. 1 Extending Head-Rest	27	5	0
„ „ „ No. 2 or No. 3 Extending Head-Rest	28	15	0
If covered with Figured instead of Plain Plush . . . extra	0	15	0
„ „ Morocco Leather instead of Plain Plush „	0	15	0
Packing Case (returnable)	1	0	0

No. 3.—Hospital Pattern, with Simple Foot-Rest, as supplied to the Royal Dental Hospital of London.

Chair with Roll Head-Rest covered in Leather-Cloth, with	£	s.	d.
Wooden Seat, Back, and Arms. with Foot-Rest covered			
with Cork Linoleum and with Wooden Toe-piece	18	0	0
Packing Case (returnable) extra	1	0	0
Chair Attachment with Table Arm, Tumbler Holder, and			
Spittoon Holder	2	2	0
Walnut Table	0	8	6
Enamelled Steel Spittoon	0	3	9
„ Tumbler	0	0	6

No. 3a.—Plain-line Finish, with Simple Foot-Rest.

Chair with Roll Head-Rest, covered in Leather-Cloth	£	s.	d.
„ „ „ in Maroon or Green Plush	21	0	0
„ „ „ in Maroon or Green Plush	22	10	0
Packing Case (returnable) extra	1	0	0

ASH'S PERFECTED HYDRAULIC PUMP CHAIR.

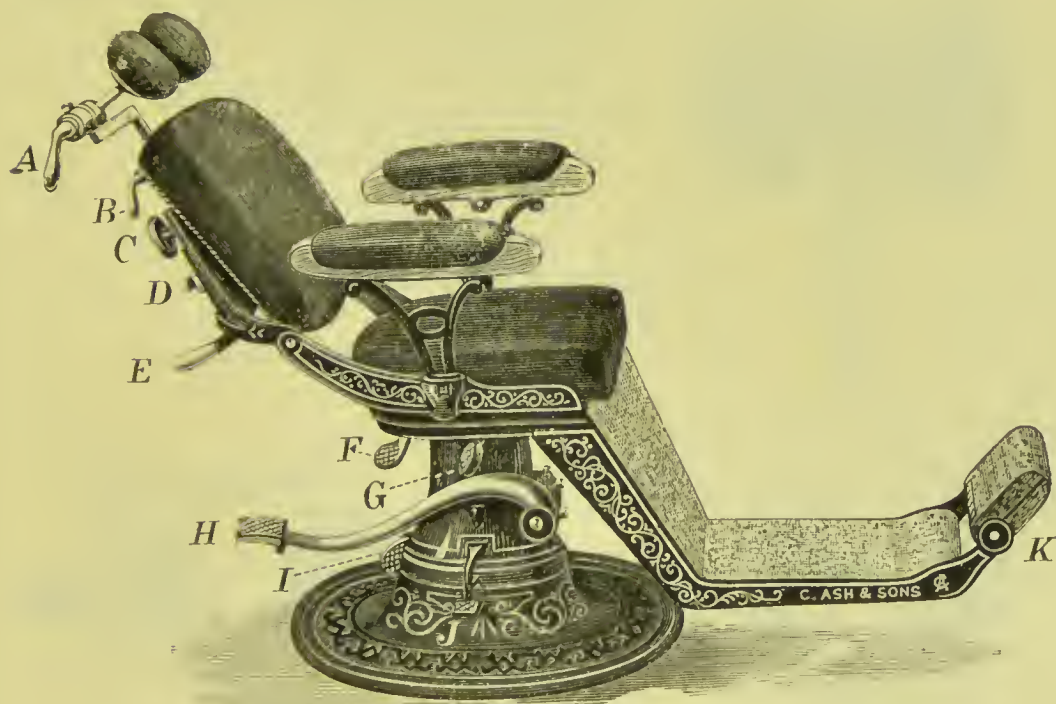
Like our Long-Range Chair this Chair possesses the following

ADVANTAGES:

1. It rotates from the floor plate, consequently all the levers are carried round with it, and are behind it in whatever position it may be.

2. All the internal working parts are well protected from dust.

It is made with **Simple** Foot-**Rest**, as shown below, with **Extending** Foot-**Rest**, as shown on page 53, and with improved **Short Back**, $14\frac{1}{2}$ inches deep, which can be lowered on to the **Seat**.

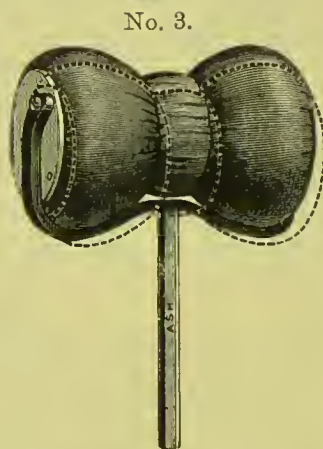


MADE IN LOW, MEDIUM, AND HIGH RANGES:

	Lowest Position of Seat.	Highest Position of Seat.	Width of Seat between the Arms.
Low Range . . .	16 inches	26 inches	21 inches
Medium Range . . .	$18\frac{1}{2}$ „	$28\frac{1}{2}$ „	21 „
High „ . . .	20 „	32 „	21 „

In ordering, care should be taken to specify whether the Low, the Medium, or the High range is required. For Prices see previous page.

ASH'S HEAD-RESTS.

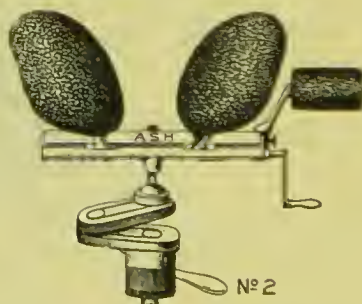
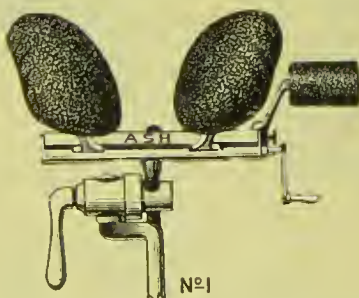


No. 1. Simple Head-Rest with Arm-Support £ s. d.
2 15 0

No. 2. Wilkerson's Head-Rest. A single turn of the lever releases the ball-joint and allows the head-rest to be put into any position 3 15 0

No. 3. Roll Head-Rest. This pattern can be recommended for great comfort, and is easily adjusted 2 17 6

DENHAM'S EXTENDING HEAD-RESTS.

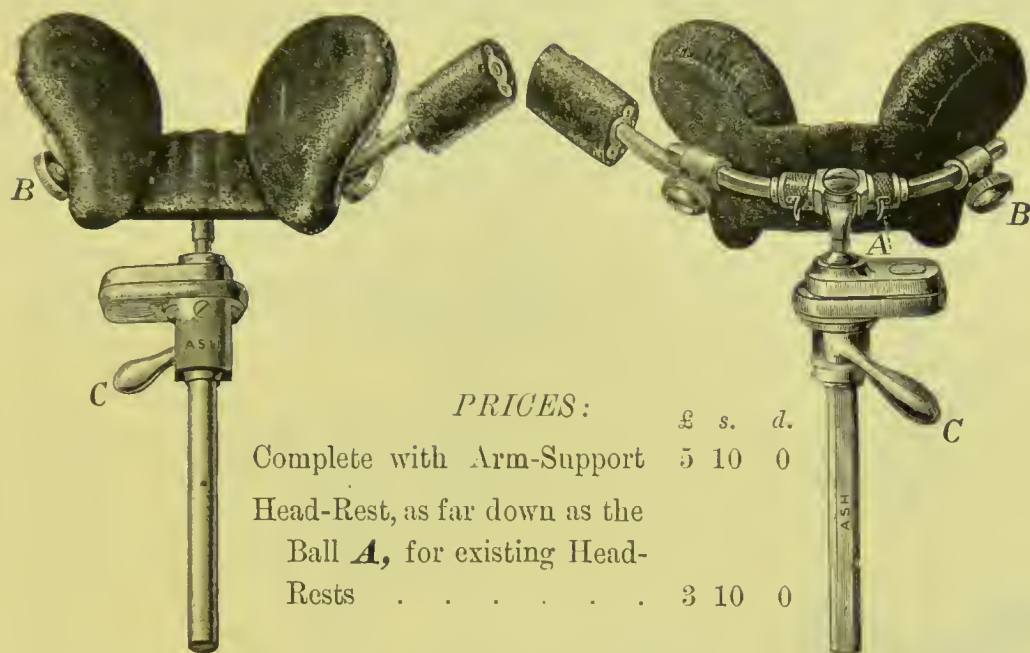


The pads of the Head-Rests shown above are set at a convenient distance from each other on the horizontal bar, and may be brought nearer together or set further apart by means of the small handle. The arm-support may be placed on either side of the Head-Rest.

PRICES:

	£	s.	d.
No. 1. Denham Head-Rest, mounted on simple stem as above .	4	0	0
No. 2. „ „ with Ball-Joint Adjustment . .	5	10	0

DENHAM'S EXTENDING HEAD-REST—No. 3.



FRONT VIEW.

BACK VIEW.

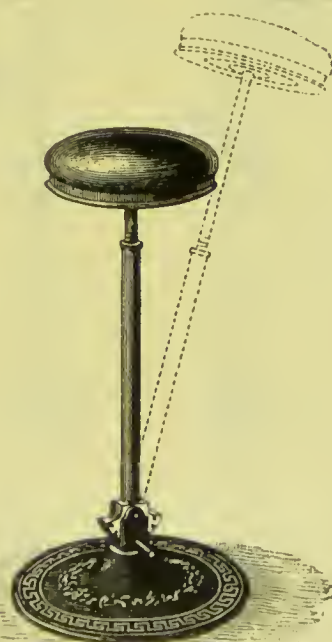
	PRICES:		
	£	s.	d.
Complete with Arm-Support	5	10	0
Head-Rest, as far down as the Ball <i>A</i> , for existing Head- Rests	3	10	0

In ordering a Denham's Head-Rest, please state for which Chair it is required.

ASH'S ADJUSTABLE STOOL.

This Stool has a range of 11 inches, the lowest position being 23 and the highest position 34 inches. The total weight is 17 lbs., and it can be easily lifted with one hand to any desired position. It is elegant in appearance, the seat being upholstered in plush or leather, or fitted with caned top, the pillar nickel-plated, and base japanned black relieved with ornamentation.

	£	s.	d.
Either style each	2	10	0



ASH'S FIG. 26a HEAD-REST.

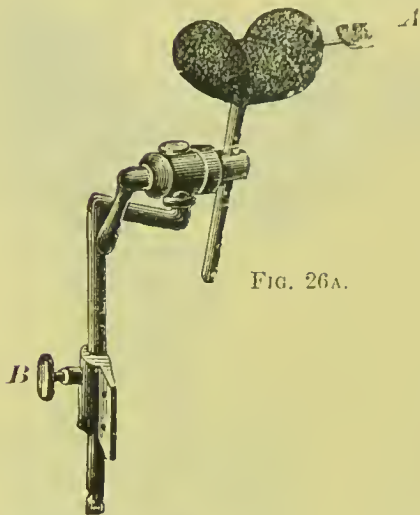


FIG. 26A.

This Head-Rest can be screwed on to the back of any suitable Wooden Chair.

Its movements, which are controlled by a single handle and the screw on the socket *B*, are so numerous that we can recommend it as a first-class Head-Rest. The Arm-Support *A* can be fixed on either side of it as may be desired.

The upholstered part is nicely padded and covered with the finest Plush, and all the metal parts, except the socket *B*, are substantially nickel-plated.

Head-Rest, in Green or Maroon

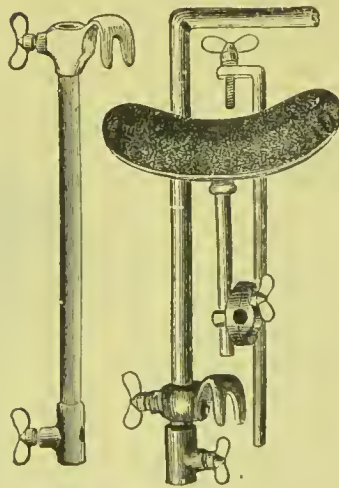
Plush, with Arm-Support, as £ s. d.
illustrated 2 15 0

Ditto, without Arm-Support . 2 5 0



PORTABLE HEAD-REST.

(AMERICAN PATTERN.)



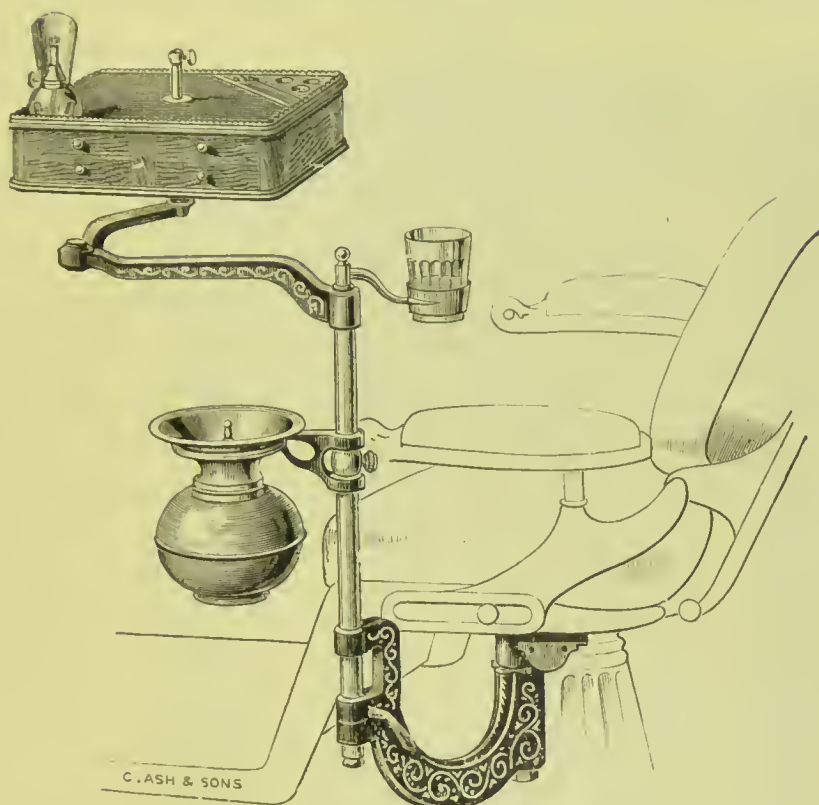
The American pattern Head-Rest here shown, which only weighs $5\frac{1}{2}$ lbs., possesses so many useful movements that it will be found to meet all the requirements of those Dentists who have a visiting practice. It can be attached to an ordinary chair. When taken apart and folded up, as illustrated, it is very portable and does not take up much room.

It is strongly made and highly finished, all the metal parts being heavily nickel-plated, and the upholstered part nicely padded and covered with best quality plush, or, if preferred, with leather-cloth.

Price £ s. d.
48 0

CHAIR ATTACHMENT,

FOR THE CHAIRS SHOWN ON PAGES 52 TO 55.



Consisting of Swinging Crane, Adjustable Upright Rod, Spittoon Holder, Tumbler Holder, jointed Table Arm, and Socket for going through Table to hold Reflector.

Chair Attachment, with Glass Tumbler, and Nickel-plated Spittoon with Glass Funnel, but without Table	£	s.	d.
Simple Table, with Spirit Lamp	3	17	0
Allan's „ <i>as illustrated</i>	1	4	0
Holmes' „ with Spirit Lamp	2	8	0
„ „ (American) „	5	10	0
„ „	6	5	0

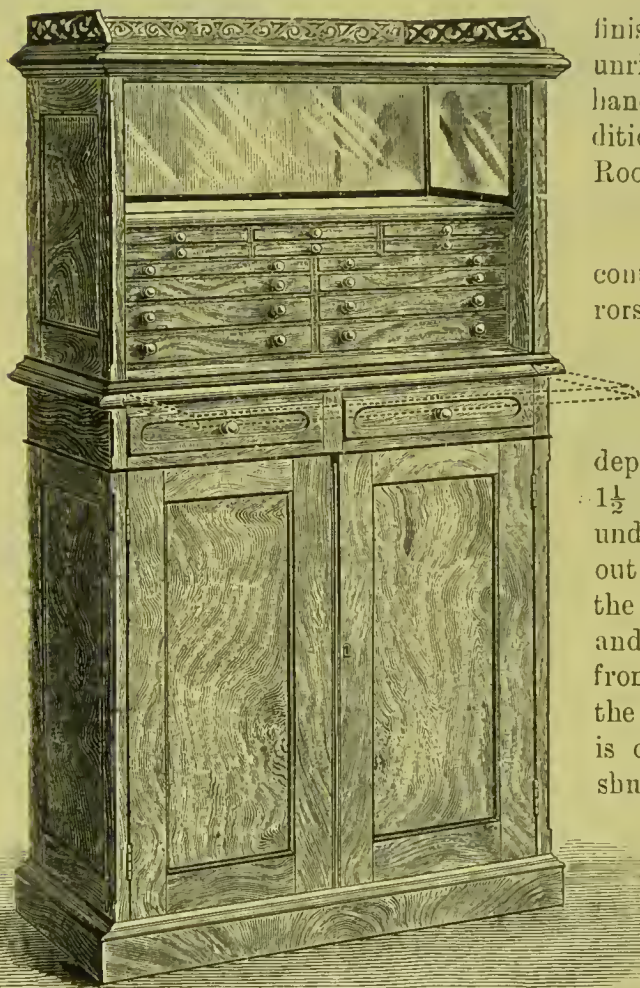
CHAIR ATTACHMENT,

FOR THE MORRISON CHAIR OF OUR MANUFACTURE.

Consisting of Swinging Crane, Adjustable Upright Rod, Spittoon Holder, Tumbler Holder, jointed Table Arm and Socket for going through Table to hold Reflector.

Chair Attachment, with Glass Tumbler, and Nickel-plated Spittoon with Glass Funnel, but without Table	£	s.	d.
	4	7	0

ASH'S IMPROVED CABINET—Fig. 1.



For workmanship and finish this Cabinet stands unrivalled, and forms a very handsome and valuable addition to the Operating Room.

The top compartment contains back and side mirrors and a marble shelf, beneath which are placed fourteen drawers varying in depth from half an inch to $1\frac{1}{2}$ inches. Immediately under the drawers is a pull-out shelf for instruments, the width of the Cabinet and $9\frac{1}{2}$ inches from back to front. When not in use the whole of the upper part is covered by a revolving shutter, which is fitted with lock and key. All the drawers are nicely lined with maroon cloth.

OUTSIDE DIMENSIONS:

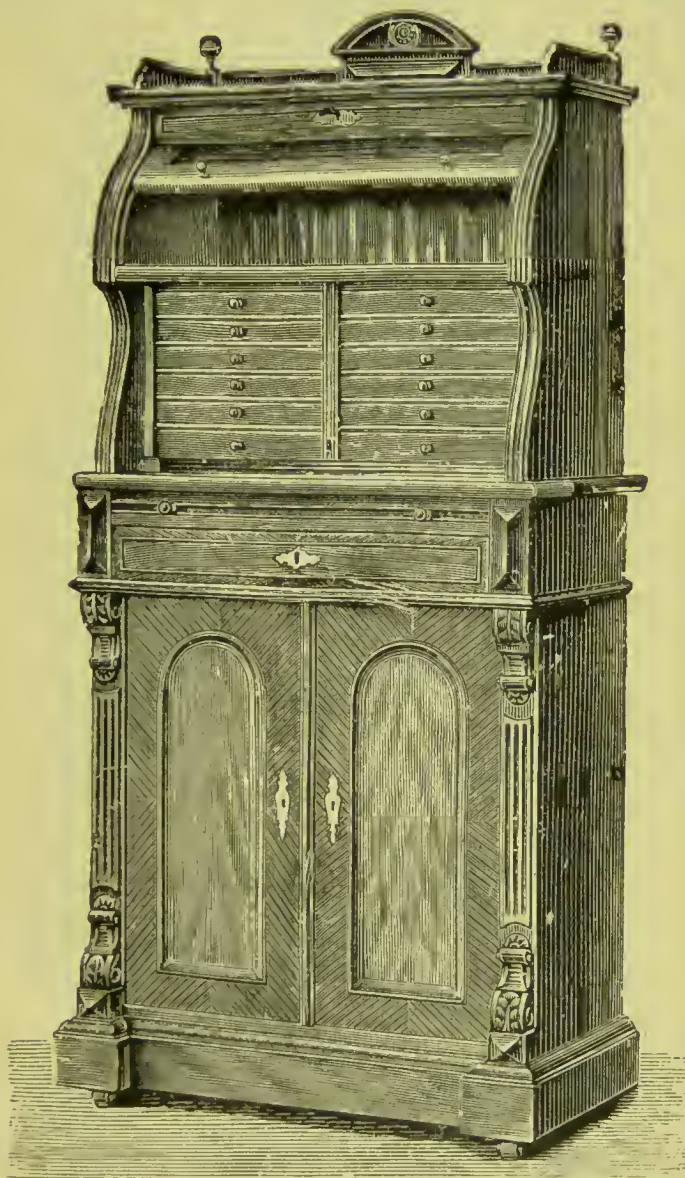
58 inches high ; 28 inches wide ; 15 inches deep.

board, with two adjustable shelves, which measures inside 26 inches high, 24 wide, 13 deep. The Cabinet is mounted on casters, and each of the drawers and the cupboard are provided with lock and key.

The lower portion of the Cabinet is occupied by two drawers $2\frac{1}{2}$ inches deep ; and a cup-

	£. s. d.
In well-seasoned Walnut and Ebony, highly polished . . .	18 10 0

ASH'S DENTAL CABINET—Fig. 10a.

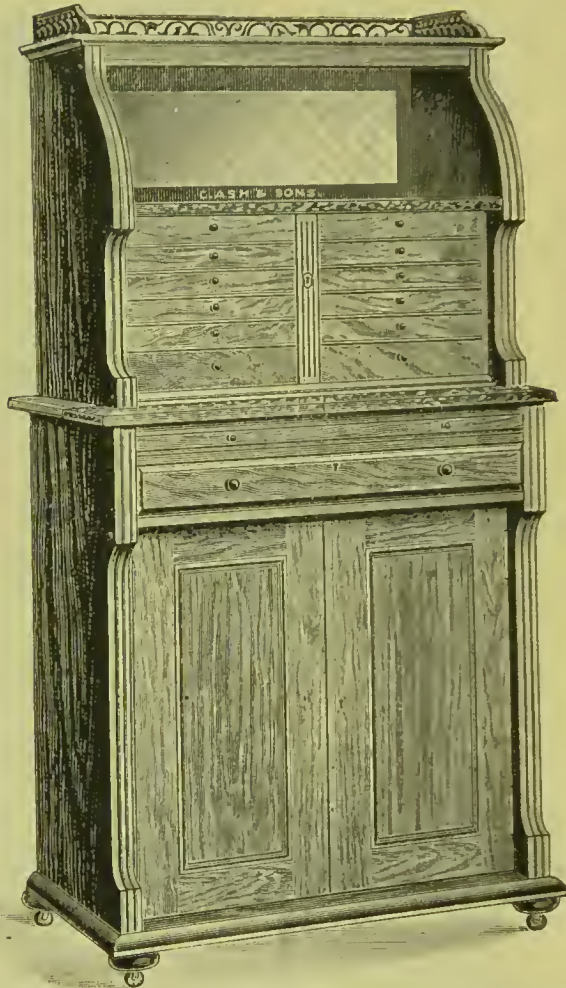


Dimensions : Height, 70 inches ; width, 32 inches ; depth, 17 inches

In well-seasoned wood, veneered with Walnut, with Dark	£	s.	d.
Marble Slabs	12	7	6
Mahogany Forceps Tray, to fit in bottom drawer of upper			
part	0	8	0

ASH'S DENTAL CABINET—Fig. 10b.

(NEW PATTERN.)



This pattern is a modification of the well-known Fig. 10A Cabinet, containing 11 instrument drawers, a good working space, with a marble slab on floor and a mirror at the back, a pull-out shelf for instruments, a deep drawer, and a cupboard for sundries.

Dimensions : Height, 63 inches ; width, 32 inches ; depth, 16½ inches.

PRICES:

In well-seasoned wood, veneered with Walnut, with	£	s.	d.
Dark Marble Slabs	11	5	0
Mahogany Forceps Tray, to fit in bottom drawer of			
upper part	0	8	0

ASH'S DENTAL CABINET—Fig. 15a.



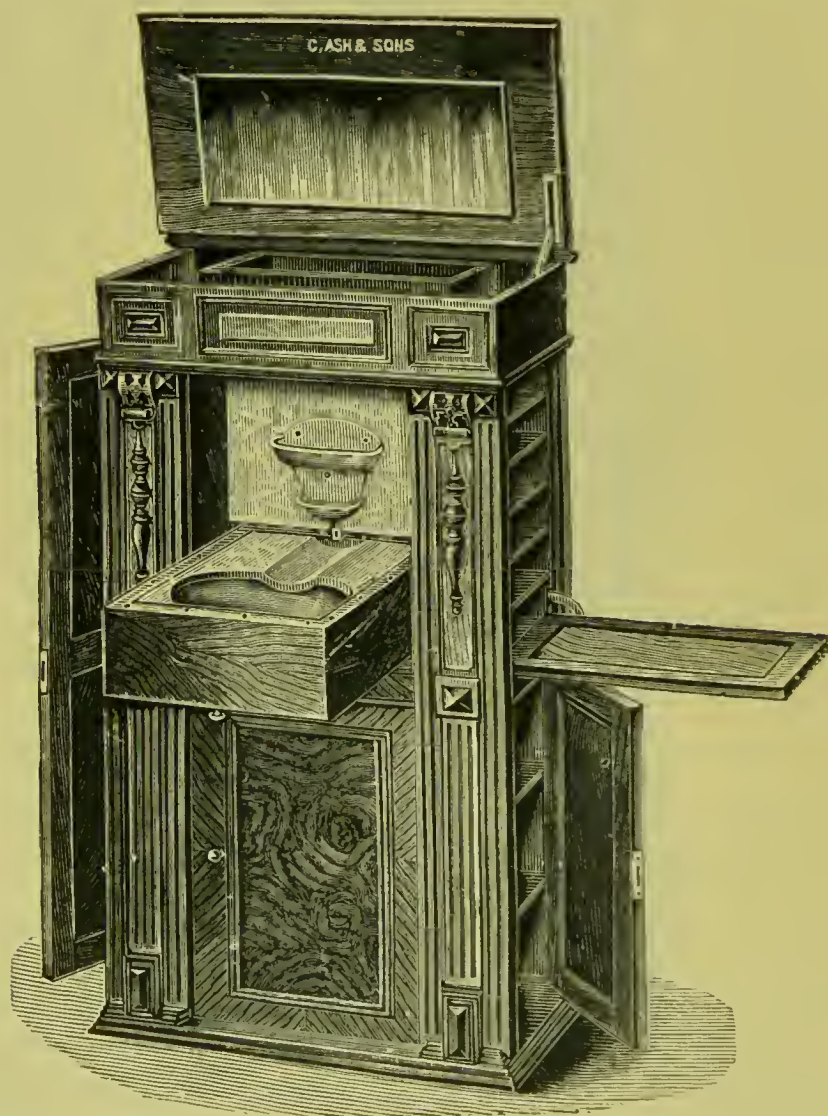
This pattern is a compact yet roomy Cabinet, containing more drawers than any of the cheaper patterns.

Dimensions : Height, 69 inches ; width, 29 inches ; depth, 17 inches.

PRICES:

	£	s.	d.
In well-seasoned wood, veneered with Walnut	16	4	0
Mahogany Forceps Tray, to fit in bottom drawer of upper part	0	8	0

ASH'S TOILET CABINET—Fig. 5.
With Side Cupboard.



Length of Shelf at side, $16\frac{3}{4}$ inches.

Height of Cabinet, 54 inches; width, $29\frac{1}{2}$ inches; depth, 16 inches.

	£	s.	d.
Price, complete, veneered with Walnut	13	10	0

FURNITURE LIST ON APPLICATION.

WALL SALIVA EJECTOR.

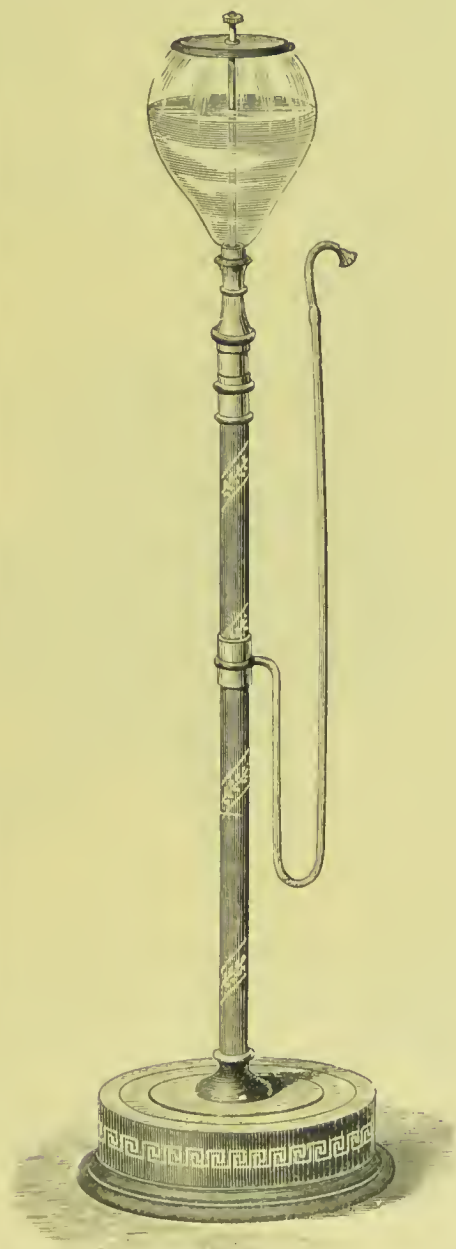
(IMPROVED FORM.)



Simple, efficient, and economical ;
suitable for use on any water supply.

	<i>Price :</i>	<i>s.</i>	<i>d.</i>
Complete		27	6

SNOW'S SALIVA EJECTOR.

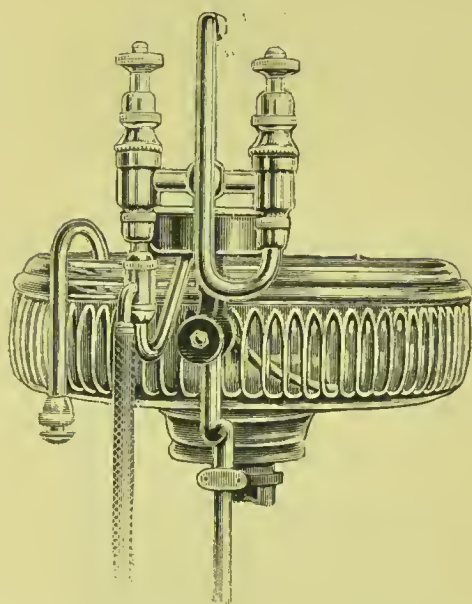


	<i>Price :</i>	<i>s.</i>	<i>d.</i>
Complete		60	0

F

THE WEBER REGULAR FOUNTAIN SPITTOON. (PATENTED.)

Descriptive Circular on application.



No other Fountain Spittoon can be compared with the Weber for cleanliness and efficiency. Its action is instantaneous—any fluid or mucus discharged into the bowl disappears immediately. A smaller pressure of water will work it than is required for working other Fountain Spittoons. It is elegant and refreshing in appearance, perfectly sanitary, quite noiseless in use, thoroughly well made, and sold at a reasonable price. It can be had with CLEAR CRYSTAL GLASS BOWL, RUBY GLASS

BOWL, GREEN GLASS BOWL, AMBER GLASS BOWL, or with BLUE AND GOLD PORCELAIN BOWL, or with WHITE AND GOLD PORCELAIN BOWL.

In ordering, be careful to specify which bowl is required.

Prices, with bright parts nickel-plated or oxidised :

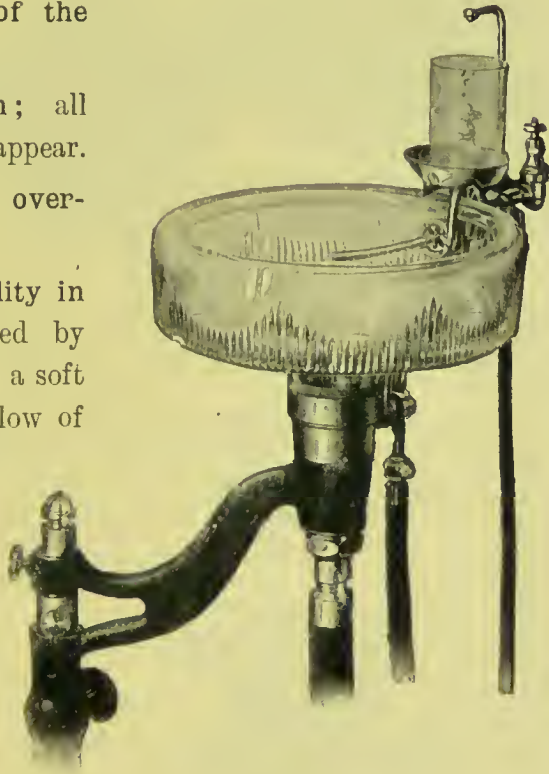
Complete, any Colour—	£	s.	d.
With Chair Attachment	9	0	0
With Stand instead of Chair Attachment . .	10	0	0

Discount for Cash, 5 per cent.

THE WEBER SPECIAL FOUNTAIN SPITTOON.

The Weber SPECIAL Fountain Spittoon not only possesses all the features of the REGULAR form, shown on the opposite page, but is also distinguished for :

1. The beautiful shape of the Bowl.
2. Its rapidity of action ; all discharges instantly disappear.
3. Its greatly improved overflow outlet.
4. Its safety and durability in use, which are secured by mounting the Bowl on a soft rubber cushion, to allow of the expansion and contraction of the glass under varying changes of temperature ; it is safe to say that it will not break unless it is hit with something hard enough to smash it.



The Weber SPECIAL Fountain Spittoon is supplied with Crystal, Ruby, Amber, or Green Glass Bowl at the same prices as the REGULAR form—see previous page.

Sole Agents for the United Kingdom and throughout the Continent of Europe :

CLAUDIUS ASH & SONS, LTD.,
5 to 10, BROAD STREET, GOLDEN SQUARE, LONDON, W.

To be obtained at all Dental Dépôts.

JUGS, WATER BOTTLE, AND SPITTOONS.

(DOULTON WARE.)

FIG. 12.

FIG. 11.

Height, $7\frac{1}{2}$ ins.Height, $10\frac{1}{2}$ ins.

FIG. 13.



Height, 6 ins.

Jug, capacity over 1 quart	(Fig. 11) each	s. d.
Water Bottle, capacity between 1 quart and 3 pints („ 12) „		4 9
Spittoon, for Spittoon "Holders the rings of which are not less than 4 inches in diameter, clear inside measurement	(„ 13) „	6 3
(The set of three, 17s.)		

FIG. 14.

Height, $9\frac{5}{8}$ ins.

FIG. 16.

Height, $8\frac{1}{2}$ ins.

Hand Spittoon, capacity 3 pints	(Fig. 14) each	s. d.
Hot-Water Jug with metal lid, capacity over 1 quart	(„ 16) „	7 0
		7 6

SPITTOONS AND FUNNELS,

FOR SPITTOON HOLDERS, CHAIR ATTACHMENTS, Etc.

FIG. 2.



FIG. 3A.

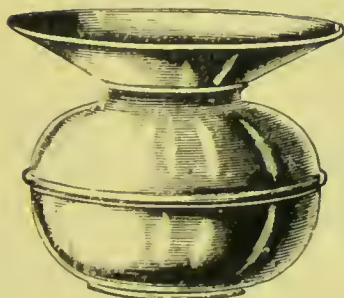


FIG. 1 FUNNEL.

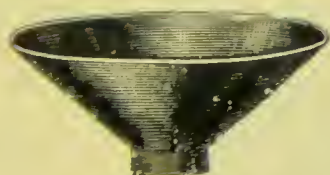


FIG. 4. REGISTERED.

(Reg. No. 253,636.)

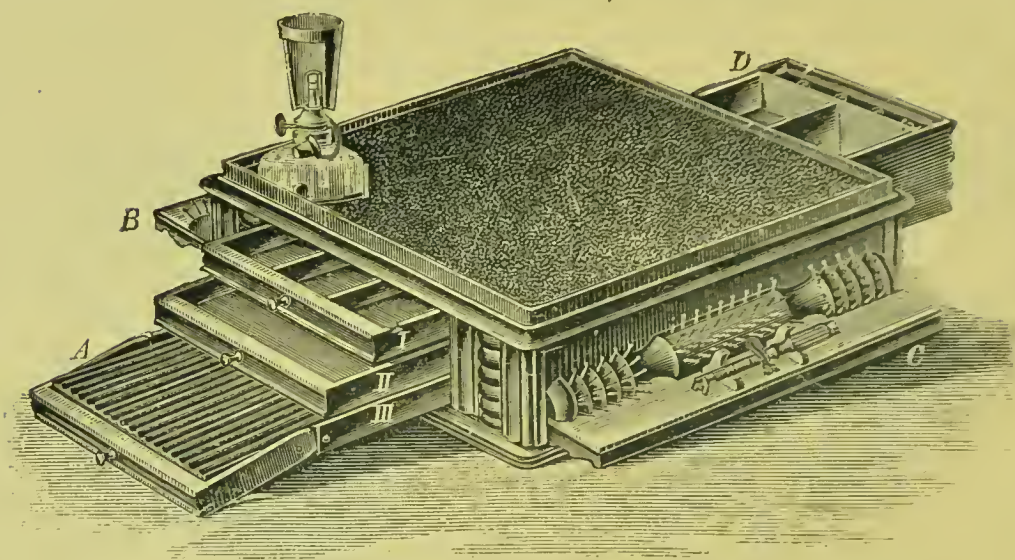


FIG. 2 FUNNEL.



PRICES:

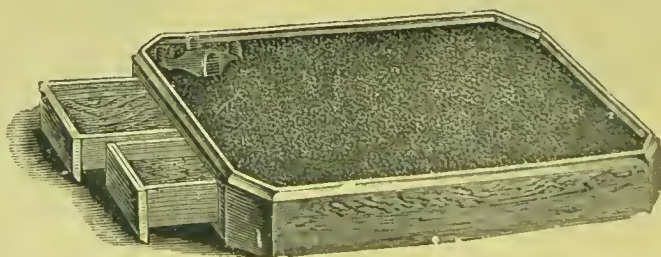
		s.	d.
Spittoon, capacity 3 pints, Nickel-plated.	(Fig. 2)	13	0
" " " " " " " "	(" 3A)	8	0
Funnel in Blue Glass	extra (" 1)	2	0
" Ruby "	(" 1)	2	6
" " " with long neck	(" 2)	2	6
Spittoon, N.P., capacity 6 pints, with ruby funnel	(" 4)	17	6

GRIGG'S BRACKET TABLE.

14 inches square by $4\frac{1}{2}$ inches deep.

This Bracket Table is so designed as to be of the greatest possible service to the Operator, each side being utilised to the fullest extent.

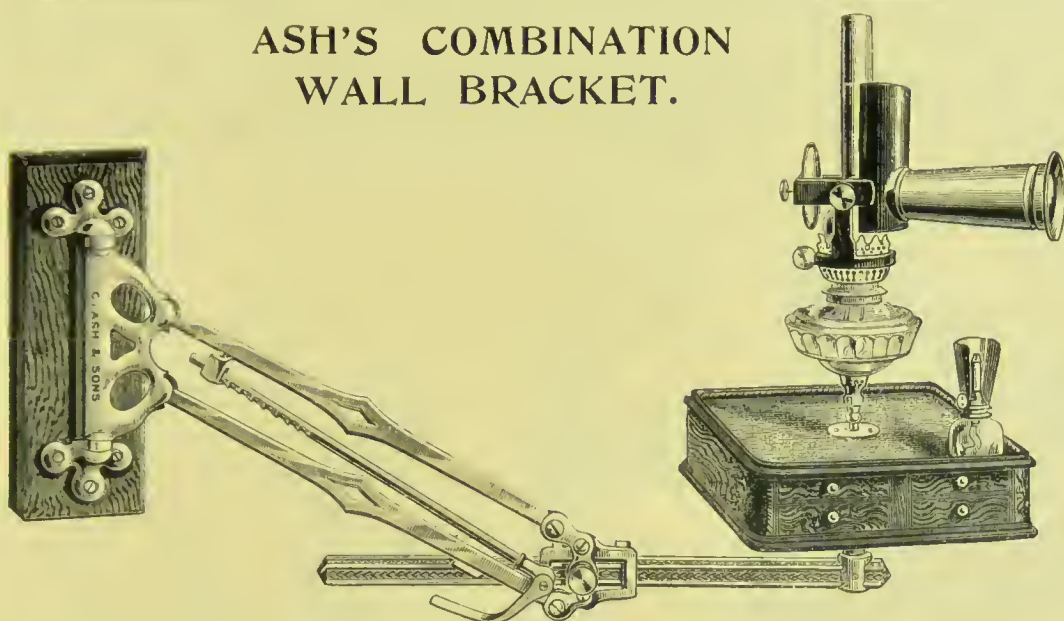
In Walnut, covered with Maroon or Green Cloth, with Lamp,	£	s.	d.
Clip, and Carter's Palette	3	15	0

SIMPLE BRACKET TABLE.

IN WALNUT, COVERED WITH GREEN OR MAROON CLOTH.

Price, complete with Spirit Lamp and Shield	£	s.	d.
	1	4	0

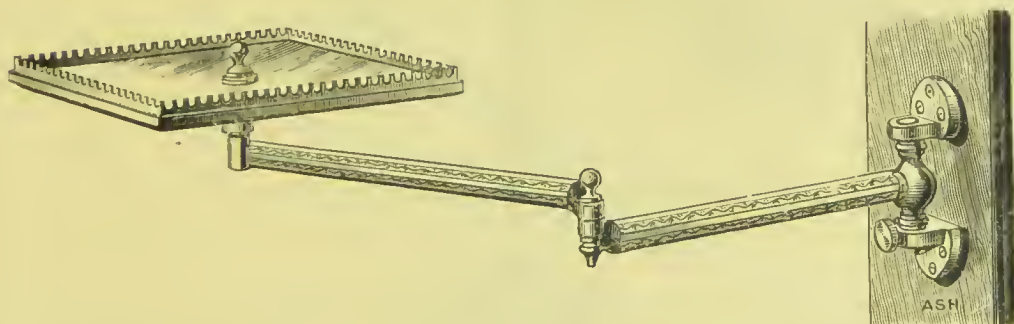
ASH'S COMBINATION WALL BRACKET.



Full length, 49 inches.

	£	s.	d.
Bracket with Ratchet Arm, Nickel-plated	3	0	0
Allan Table with Spirit Lamp	2	8	0
Telschow Reflector	1	10	0
Complete, as illustrated	£6	18	0

ASEPTIC GLASS TABLE AND SIMPLE WALL BRACKET.

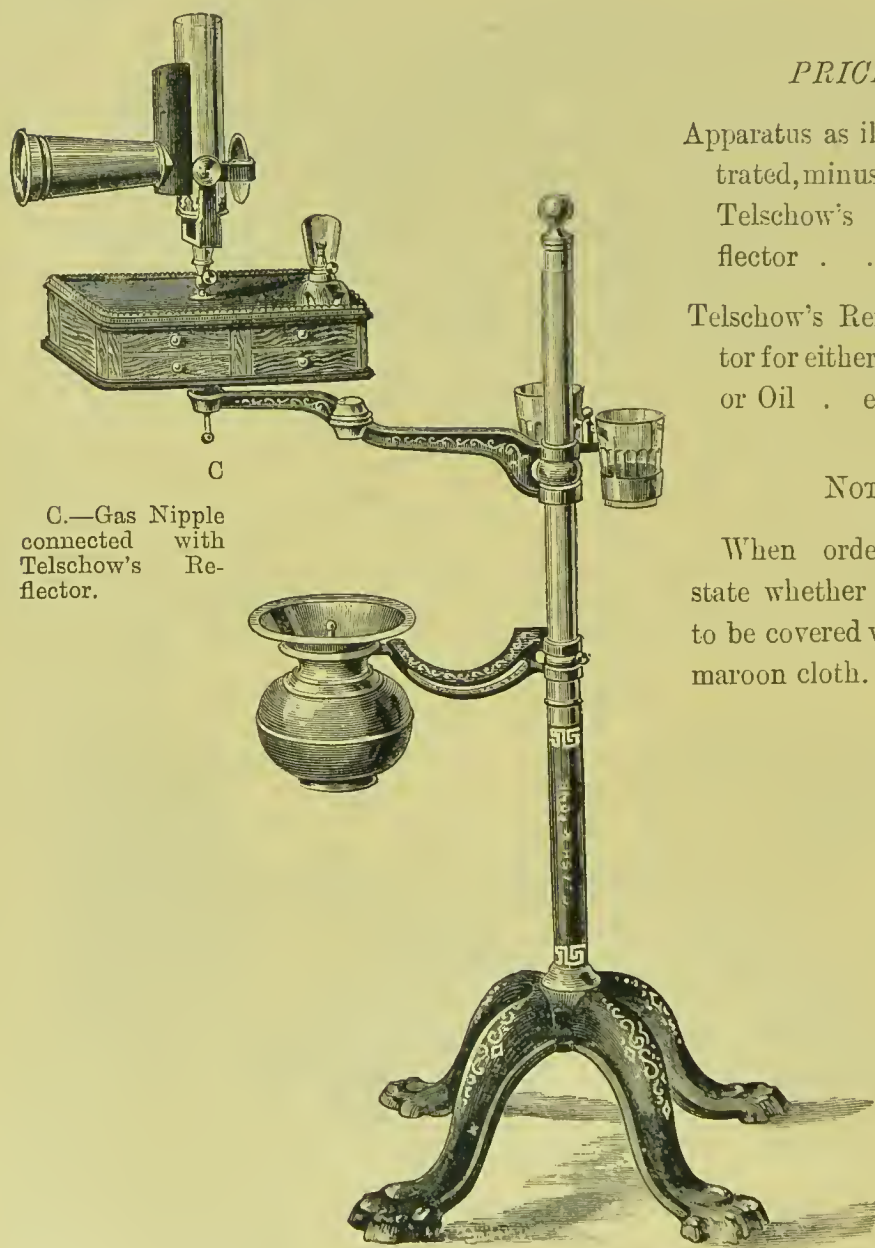


This Plate-Glass Instrument Table has a nickel-plated metal border, which fits closely, but may easily be removed for cleaning; the whole can thus be kept perfectly aseptic. Full length, 31 inches.

	£	s.	d.
Table	1	0	0
Bracket	1	7	6
Complete	£2	7	6
The same with Opaline Table	2	14	0

STAND FOR INSTRUMENT TABLE, SPITTOON, Etc.

FIG. 1.



C.—Gas Nipple
connected with
Telschow's Re-
flector.

PRICES:

Apparatus as illus-
trated, minus the
Telschow's Re- £ s. d.
flector . . . 7 3 0

Telschow's Reflec-
tor for either Gas
or Oil . extra 1 10 0

NOTE.

When ordering, please
state whether the table is
to be covered with green or
maroon cloth.

Total height of Stand, 49 inches.

OPERATING-ROOM LATHES.

FIG. 1.



Fig. 1.

FOR GRINDING AND
POLISHING.

Suitable for light work in the
Operating Room.

It is 44 inches high to
the centre of the pulley-head.

	£	s.	d.
Price, with Spanner .	3	3	6
Extra Chuck to carry Engine Burs .	0	3	0

FIG. 3.



Fig. 3.

LARGE OPERATING-ROOM LATHE.

Height to top of Table, 39 inches. Range of Sliding Rod, 5 inches.

Stand and Upright, japanned black relieved with ornamentation, Walnut Table with two Drawers underneath, and Cover to match—with No. 1 Lathe Head	£	s.	d.
The same with Lathe Head No. 2	5	10	0
„ „ Iron Head No. 3	5	5	0
„ „ Gun-Metal Head No. 3	5	15	0
„ „ Lathe Head No. 7	5	7	0
„ „ „ „ No. 8	5	17	0

The above Lathe Heads are shown in List L, to be had on application.

ARTICLES, VARIOUS.

	£	s.	d.
Ash's Cabinet, No. 2, Wall	7	3	0
„ „ „ 3	20	0	0
„ „ „ 4	11	5	0
„ „ „ 6	9	0	0
„ „ „ 12	20	0	0
„ Toilet Cabinet, No. 1	9	18	0
„ Chair, No. 26, in Green or Maroon Plush	11	0	0
„ „ „ 26A, for Hospitals	8	10	0
Dispensary Chair, in polished wood, with Movable Seat, Back, and Adjustable Head-Rest	5	10	0
The Favorite Columbia Chair, No. 3, with Simple Head-Rest	25	4	0
„ „ with Ritter Extending Head-Rest	27	4	0
„ „ No. 4, with Simple Head-Rest .	28	4	0
„ „ with Ritter Extending Head-Rest	30	4	0
S. S. White's Portable Chair, Suitable for Dentists with a Visiting Practice	7	10	0
Combined Saliva Ejector and Stand, with Allan's Table, Lamp, Tumbler and Spittoon	8	3	0
Drip Cup, with Sponge, for Operating Room Lathe	0	1	0
Finger Bowls in Blue or Green Glass each	0	1	0
„ „ in Ruby Glass „	0	1	6
Hot-Water Apparatus, No. 1	2	10	0
„ „ „ 30	2	15	0
„ „ „ 3, for Gas or Spirit	1	5	6
Footstool, in Walnut, covered with Carpet	2	2	0

ARTICLES, VARIOUS—*continued.*

Holder for Table, Tumbler and Spittoon, No. 6A, without			
Table, Tumbler and Spittoon; for all our Iron Chairs	£	s.	d.
except Morrison's	1	16	0
Mouth Tubes for Saliva Ejector, Clear or Blue Glass	0	0	6
„ „ „ „ „ per doz.	0	5	0
„ „ „ „ in Metal	0	3	0
Porcelain Palette (Mr. H. C. Carter's design)	0	1	0
Glass „ „ „ „	0	1	3
Rest or Hand Support for Lathe	0	1	6
Spittoon Holder and Sockets for arms of Chairs—			
No. 2, Japanned	0	12	0
„ 3, Nickel-plated	0	12	0
„ 3A „	0	15	0
Spittoon and Tumbler Holder, No. 6, for all our Iron Chairs			
except Morrison's	2	5	0
Spittoon and Tumbler Holder, No. 6, for our Morrison Chair	2	7	0
Spittoon, Enamelled Steel	0	3	9
„ „Squat” Earthenware	0	3	3
„ Funnels for Pedestal Spittoons, in Blue Glass			
per lb.	0	3	6
Table and Spittoon Stand, No. 2	3	2	0
Water Apparatus for Lathe, Small	0	3	0
„ „ „ Large.	0	9	0

DENTAL FORCEPS.

The Illustrations of Forceps on the following pages represent a selection of the most improved forms in general use, which have met with the approval of the best Operators. The upper part of each is drawn nearly full size, in order to give a clear view of the construction of the beaks. It should be noted that the words "for the right or for the left side of the mouth," employed in some of the descriptions, mean the right or left side **in the patient's mouth.**

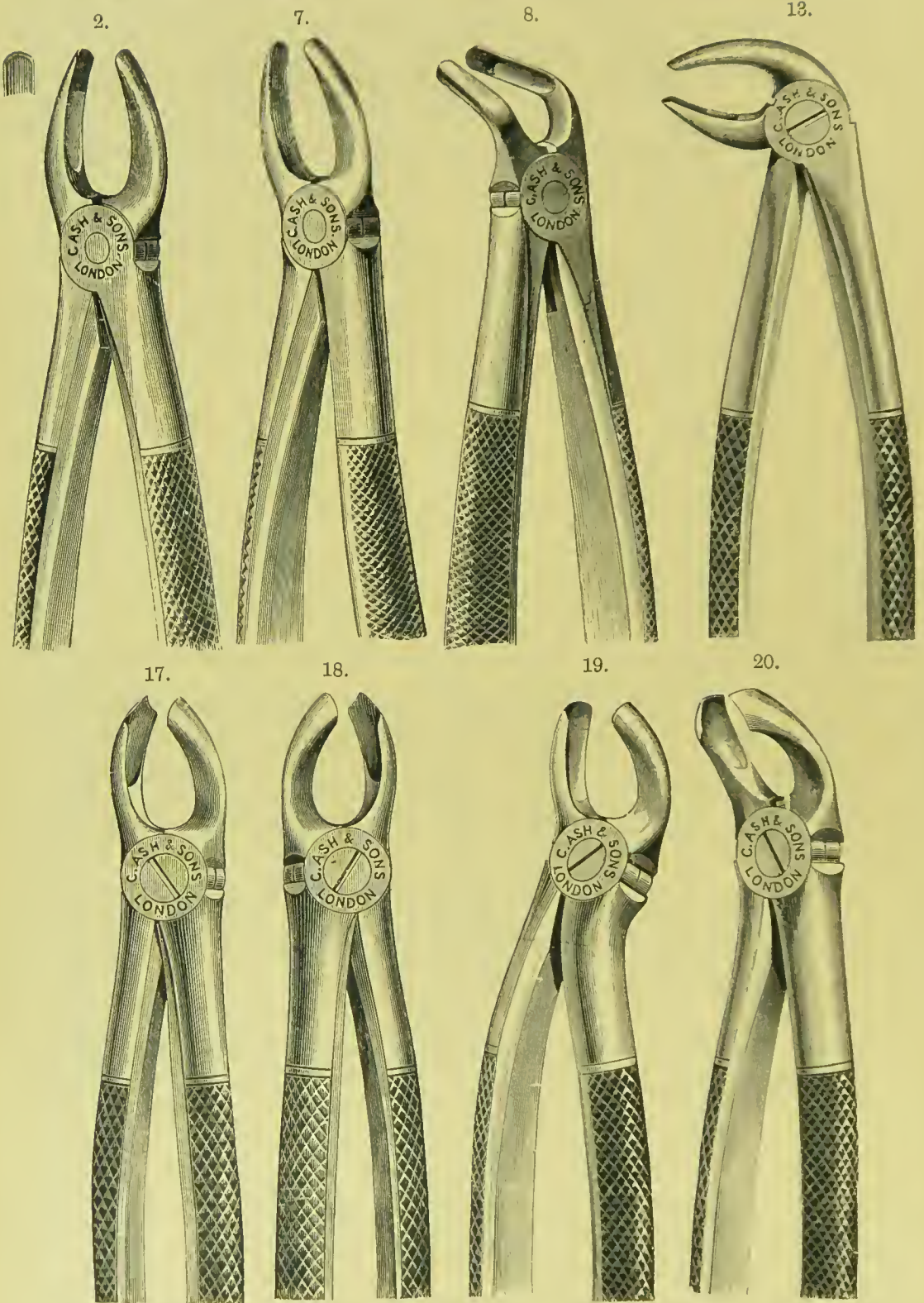
We have devoted special attention to this branch of our business for more than forty years, during which time we have availed ourselves of the suggestions for new Forceps and for modifications of existing forms made by the most eminent Practitioners in the Dental Profession, including the late Sir John Tomes and other Operators whose names have never been formally associated with the instruments which they designed. All our Forceps are made of the best steel, **nickel-plated**, and we can confidently recommend them for **lightness, strength, temper, finish, and accuracy of adaptation.** The beaks of each are made to fit the teeth for which they are intended so perfectly that a firm grip can be obtained and sufficient pressure applied for the removal of any tooth without danger of crushing the crown.

During cold weather Forceps should be warmed by being placed in hot water before they are used. The best tempered steel is liable to snap during the winter months, if this precaution is neglected.;

Special Forceps made to Operators' own patterns or models. ; All forms of American pattern Forceps supplied or made to order.

Forceps repaired, re-plated, etc., at moderate charges.

The complete Forceps List, with illustrations of all the Forceps we keep in stock, will be sent on application.



EXTRACTING FORCEPS.

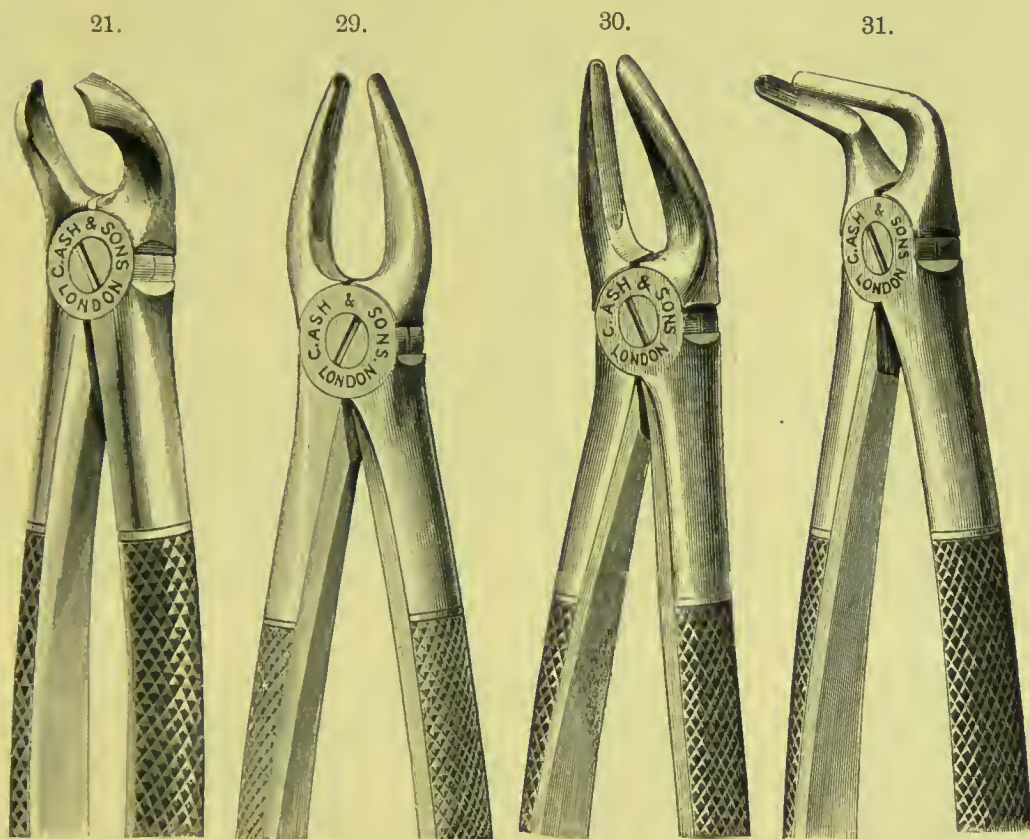


Fig. 2 for Upper Fronts and Bicuspids.

„ 7 „ Upper Bicuspids.

„ 8 „ Lower „

„ 13 „ „ „ (Hawk's Bill).

„ 17 „ Right Upper Molars.

Fig. 18 for Left Upper Molars.

„ 19 „ Upper Wisdom.

„ 20 „ Lower „

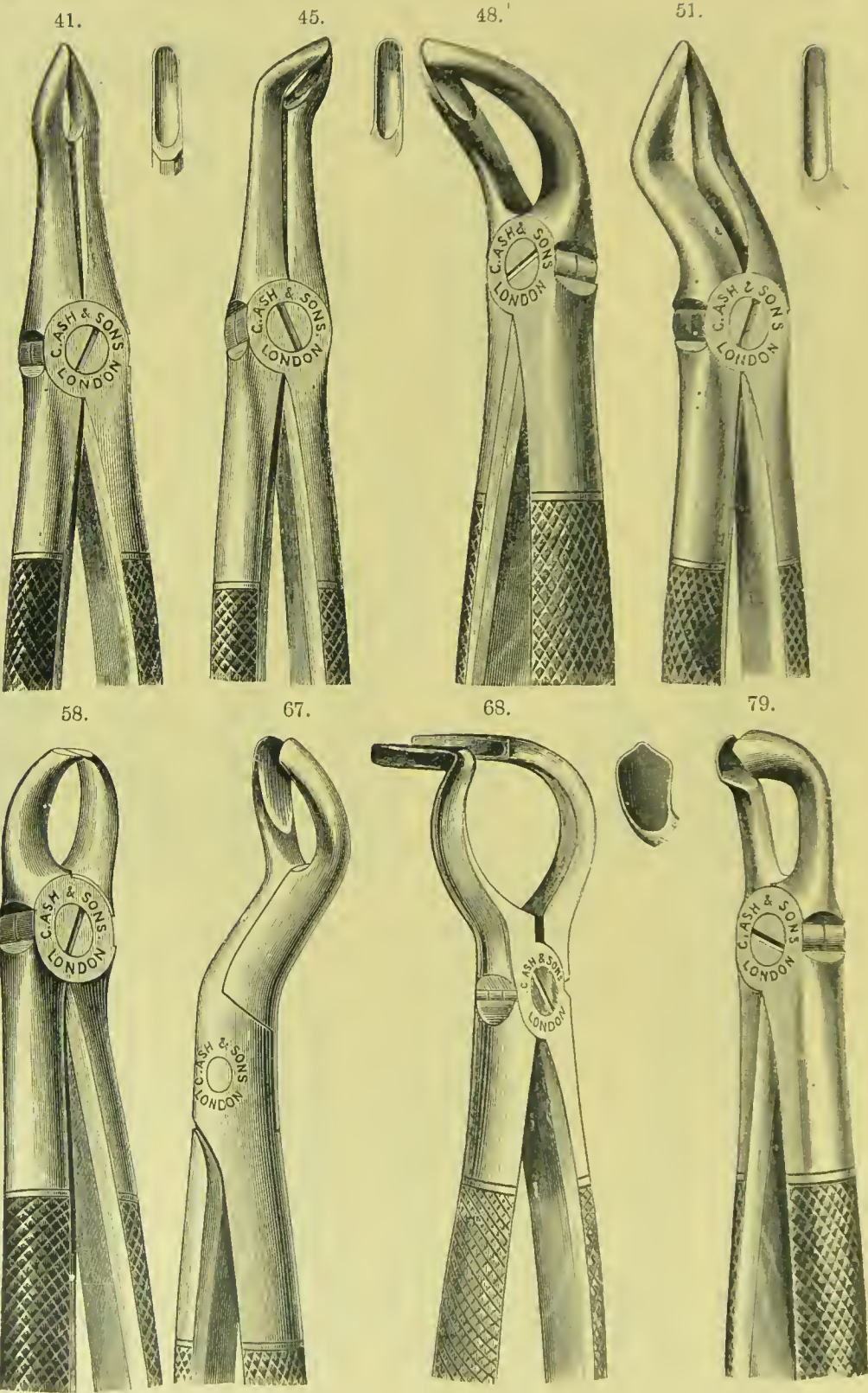
„ 21 „ „ Molars.

„ 29 „ Upper Roots.

„ 30 „ „ „

„ 31 „ Lower „

Price, Nickel-plated s. d.
each 10 0



EXTRACTING FORCEPS.

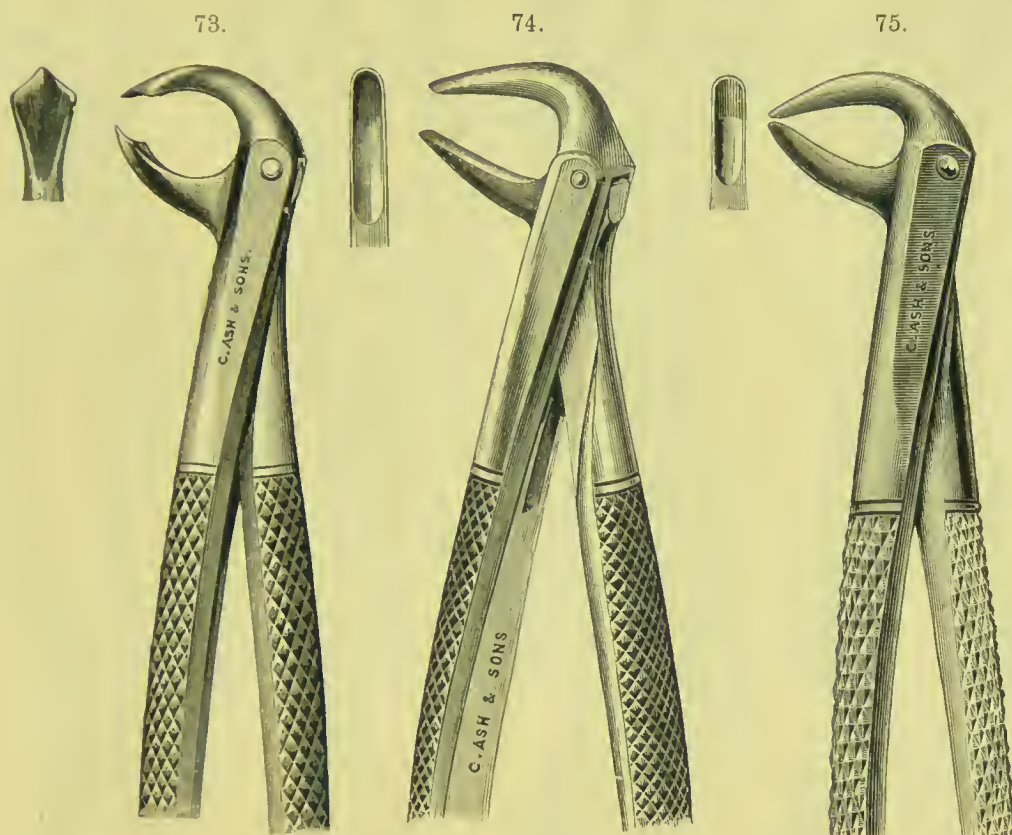
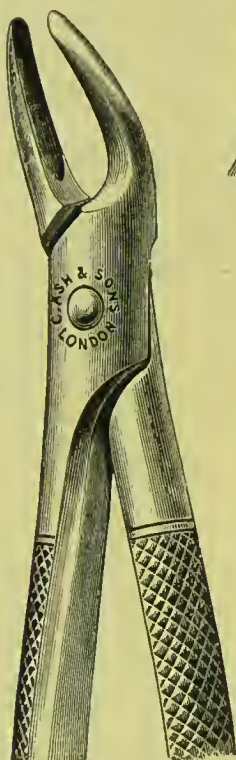


Fig. 41 for Upper Roots.

„	45	„	Lower	„
„	48	„	„	(Mr. Lawrence Read's).
„	51	„	Upper	„
„	58	„	Exeising Teeth.	
„	67	„	Upper Wisdoms.	
„	68	„	Lower Roots	(Mr. Ryding's).
„	79	„	„	Wisdoms.
„	73	„	„	Molars (Hawk's Bill).
„	74	„	„	Roots „
„	75	„	„	Bicuspid „

[illegible]

76.



76S.



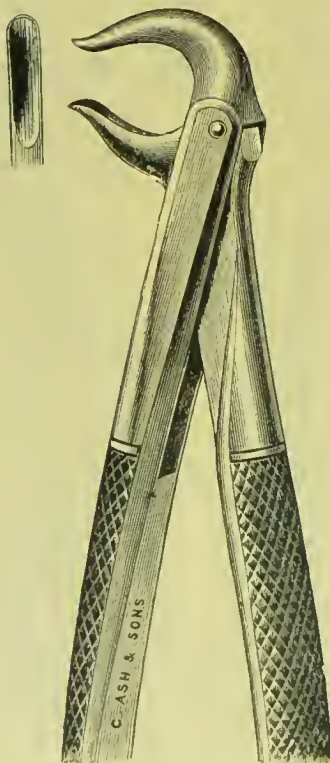
76N.



This shows the
bend of the
handles of Figs.
76, 76S and 76N.



81.



85.



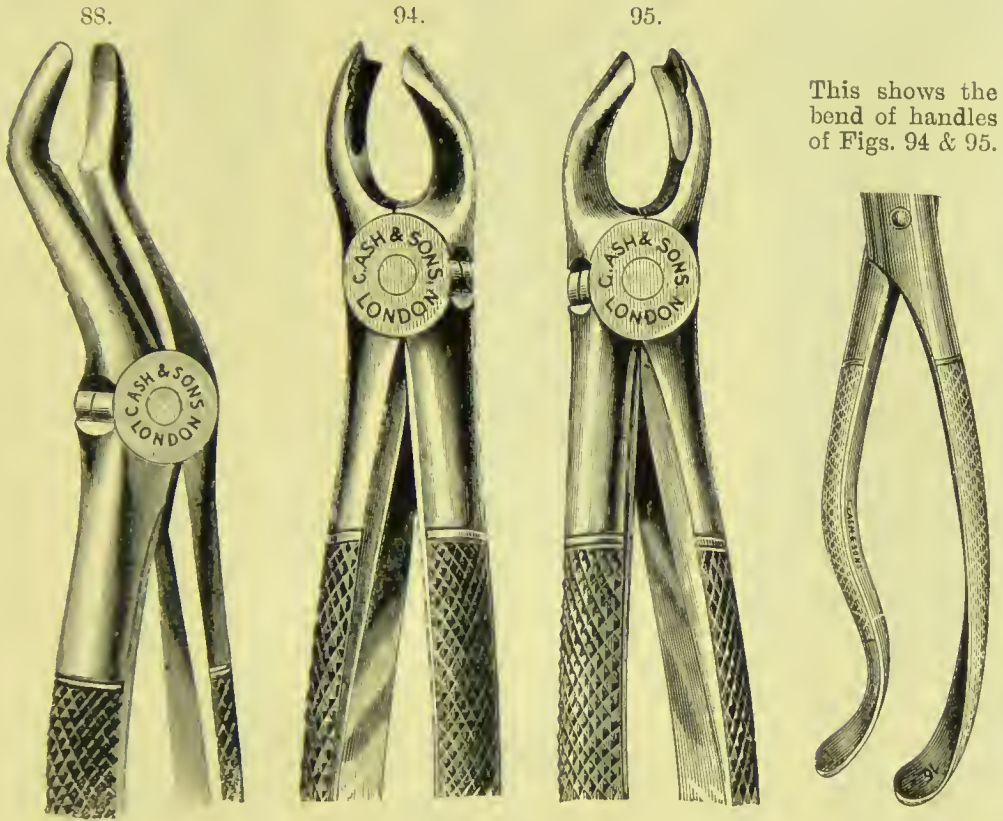
92.



93.



EXTRACTING FORCEPS.



This shows the bend of handles of Figs. 94 & 95.

Fig. 76 for Upper Roots (Mr. Lawrence Read's).

„ 76*S* „ „ „ „ „

„ 76*N* „ „ „ „ „

„ 81 „ Lower „ (Mr. G. Walker's).

„ 85 „ Upper „

„ 92 „ Right Upper Molars.

„ 93 „ Left „ „

„ 88 „ Upper Wisdoms.

„ 94 & 95 for Right and Left Upper Molars.

Price, Nickel-plated	each	s. d.
		10 0
		6 2

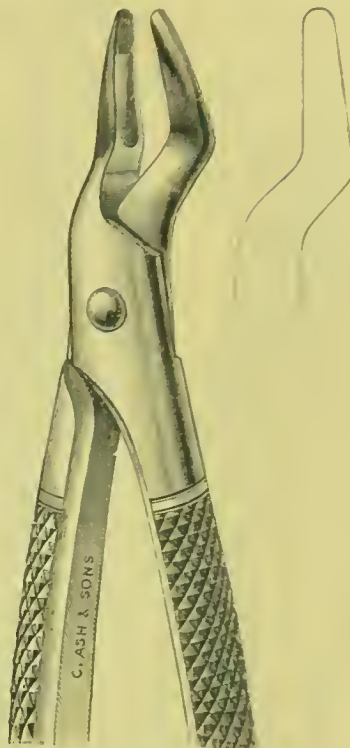
96.



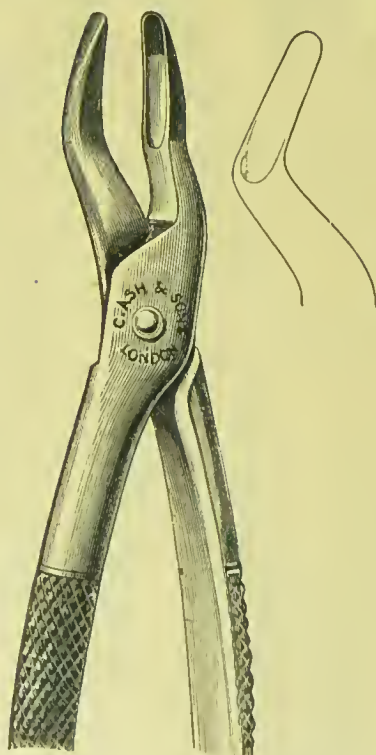
97.



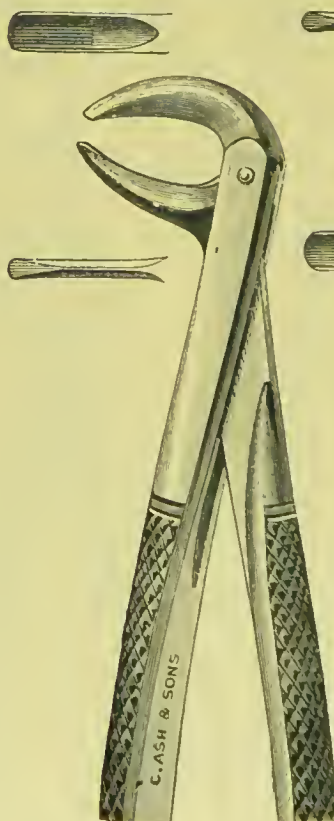
101.



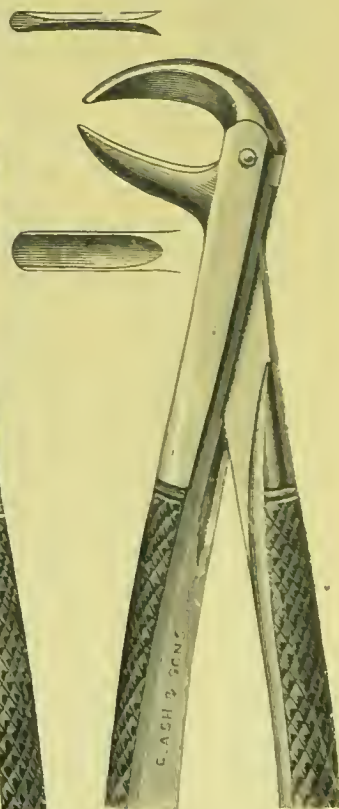
104.



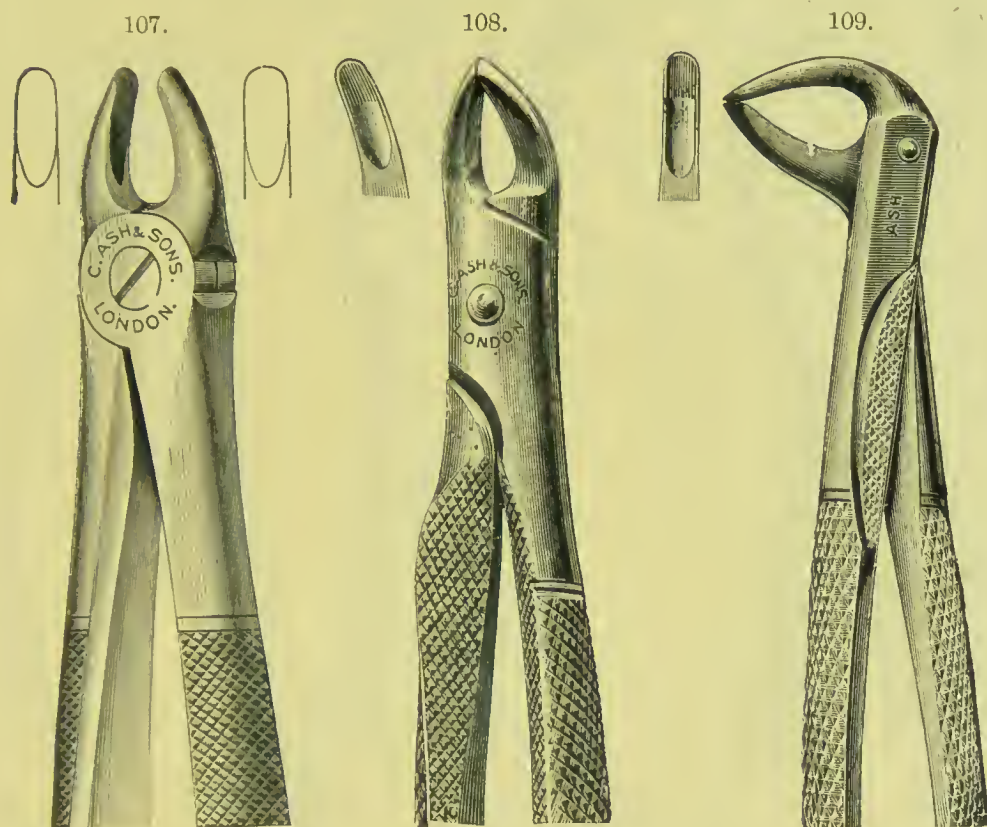
105.



106.



EXTRACTING FORCEPS.



Figs. 96 and 97 for Right and Left small Upper Molars.

Fig. 101 for Upper Roots.

„ 104 „ „ Molar and Wisdom Roots (Mr. C. Robbins’).

„ 105 „ Lower Incisors crowded internally.

„ 106 „ „ „ externally.

„ 107 „ Upper Canines.

„ 108 „ „ Roots (Mr. W. E. Hill’s).

„ 109 „ Lower Roots „

Figs. 96, 97, 101, 104 and 108 have curved handles the same as illustrated on the next page.

		s.	d.
Price, Nickel-plated, Figs. 96 to 107	each	10	0
„ „ „ 108 and 109	„	12	0

EXTRACTING FORCEPS.

FIG. 110.

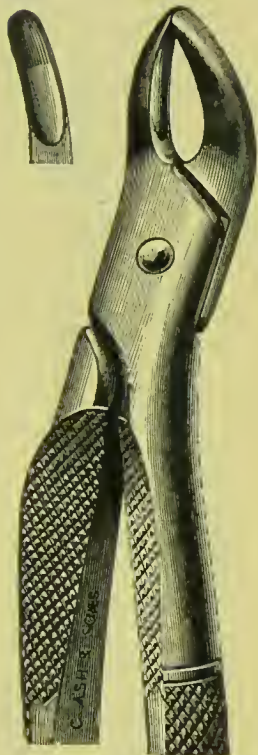
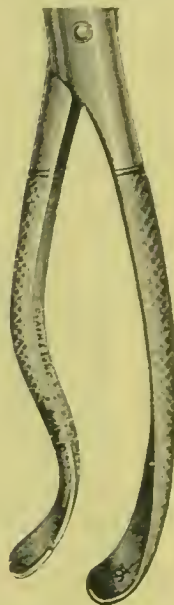


FIG. 111.



This shows the
curves of ends of
handles.



Figs. 110 and 111 (Mr. Thorne's) for Upper Wisdoms.

	s.	d.
Price, Nickel-plated each	10	0

STERILISING VASE.

(Suggested by Mr. J. DENNANT.)

For use in the Operating Room.

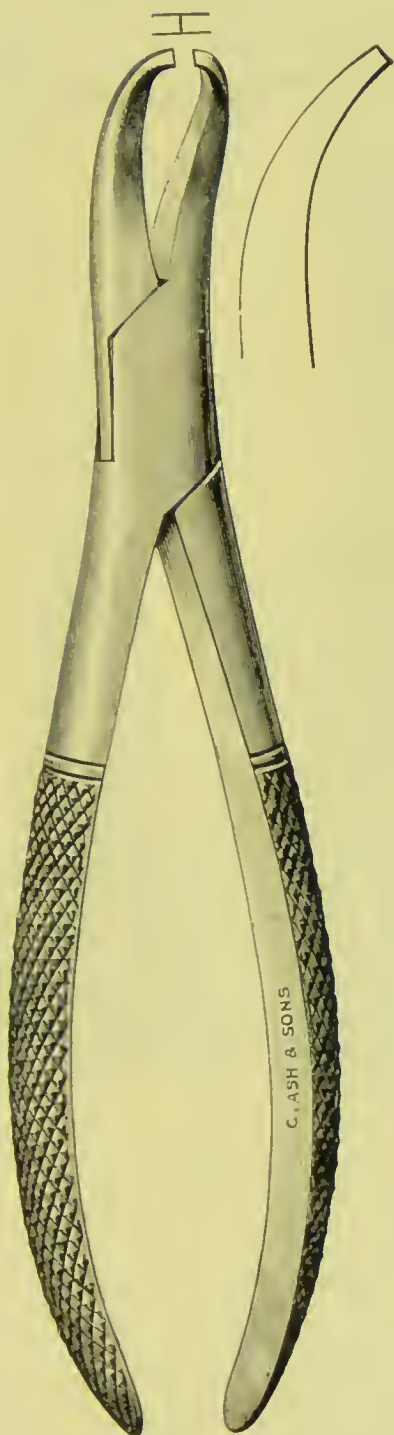
PRICE:

	<i>s.</i>	<i>d.</i>
In Clear Glass	1	3
In Claret-coloured Glass	1	9



4 inches high.

FIG. 2.



FULL SIZE.

ROOT NIPPERS FOR CROWN WORK, Etc.

(Suggested by
Mr. L. MACHIN, Worcester.)

With curved blades
and straight
checkered handles.

Price :

	s.	d.
Nickel-plated . . .	7	6

DERENBERG'S TWEEZERS.

For removing loose
and temporary teeth,
dressings, etc.

Price :

	s.	d.
Nickel-plated . . .	8	6



FULL SIZE.

ROOT ELEVATORS.

THREE-FOURTHS SIZE.

READ'S.

COLEMAN'S.

HOSPITAL PATTERN.



Straight.



Straight.



Left.



Right.

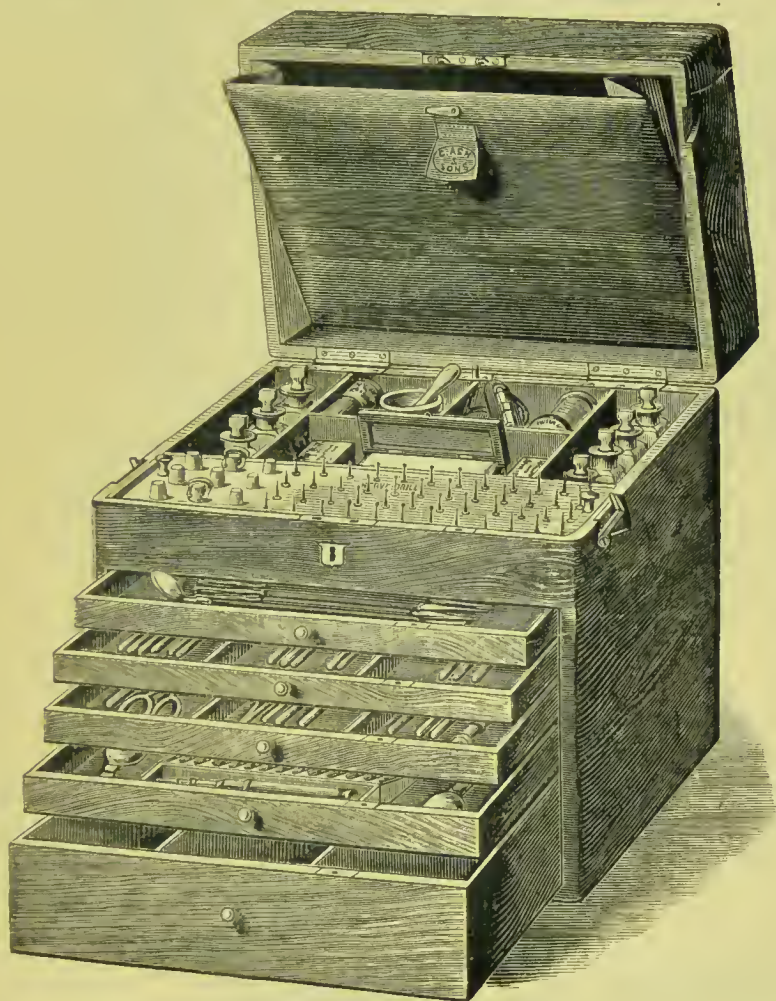
Coleman's and Hospital patterns with serrated blades,
Read's with plain blades.

		s.	d.
Elevators, Straight, in Ebony handles (Mr. Coleman's)	each	6	0
" " " " (Mr. Lawrence Read's)	"	6	0
" " " " " " " "	"	6	6
" " " " " " " "	"	7	6

Any of the above can be had in Aluminium handles at the prices quoted for Ebony handles.

IMPROVED INSTRUMENT CABINET.

Made in mahogany, lined throughout with aseptic leather, fitted with convenient handle on the top, sunk hooks on the ends for relieving the strain on the lock when the Cabinet is lifted or carried about, and four-lever lock and key.



11 $\frac{3}{4}$ inches long; 8 $\frac{3}{4}$ wide; 10 deep (outside measurement).

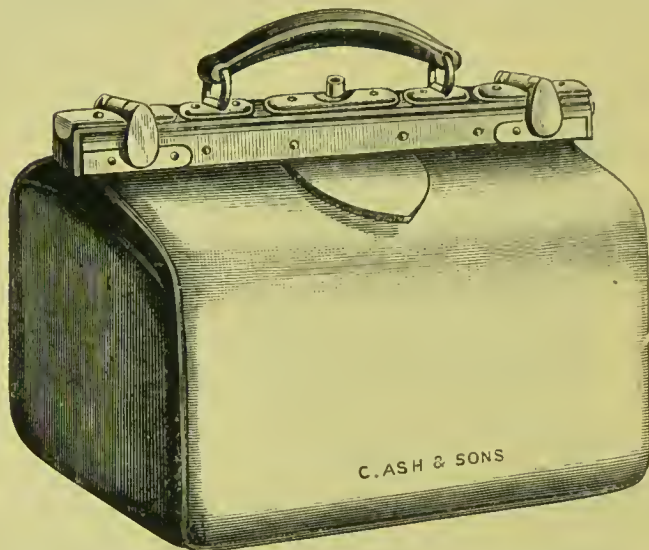
The aseptic leather lining is the outcome of suggestions made to us by Mr. C. E. Wallis, and adds greatly to the value of the Cabinet. It can be washed, and with care will last for years.

If required with Instruments, the selection is left to the purchaser.

	£	s.	d.
Cabinet, without Instruments, as illustrated . . .	2	10	0
Glass bottles, with flat-top ground stoppers, extra, each	0	0	8
Cabinet, larger size than above, with six drawers— outside measurements: 12 $\frac{7}{8}$ inches long; 9 wide; 12 $\frac{1}{4}$ deep	3	0	0

HANDY VISITING BAG.

FIG. 9.



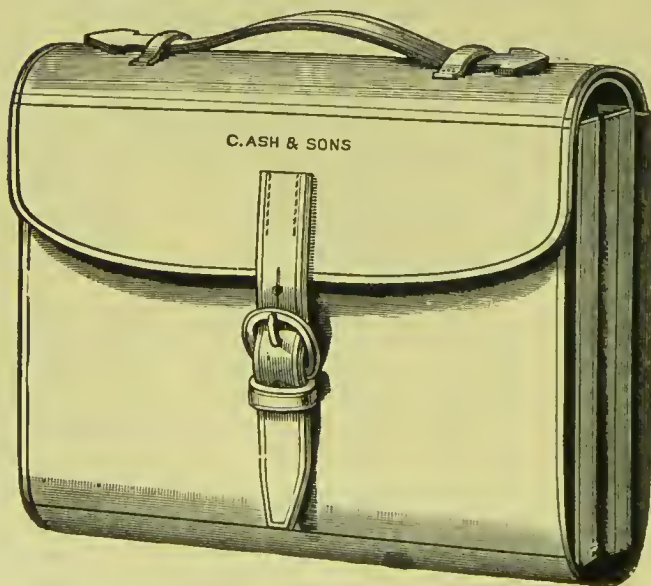
Lined with Aseptic Leather, and furnished with four removable trays for holding Forceps, Excavators, Scalers, Chisels, etc.; it also contains plenty of space for an assortment of Impression Trays, a supply of Impression Composition, Tools, and useful Sundries.

	s.	d.
Price . . .	35	0

Length, 12 inches; width, $7\frac{1}{2}$ inches; height, 10 inches.

LEATHER FOLD-UP CASE.

FIG. 8.



This Case contains eight loops for Forceps and Elevators, twelve loops for an assortment of Excavators, Chisels, Stopping Instruments, etc., and a compartment with lid and catch, $7\frac{1}{4} \times 5\frac{1}{2} \times 1\frac{1}{2}$ inches, divided to take bottles and small sundries.

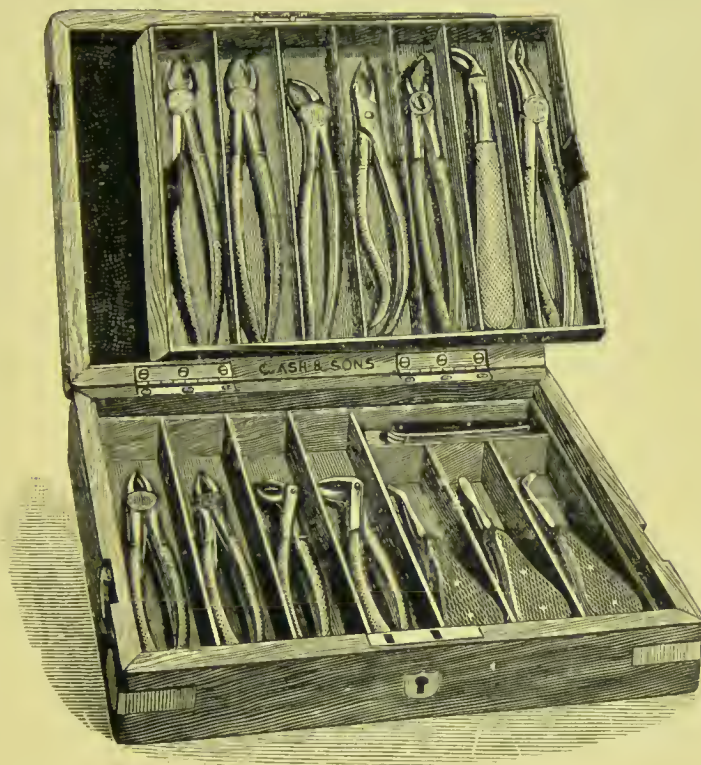
Price, including 8
Bottles and Glass
Slab :

£1	0	0
----	---	---

Outside Measurements : 7 ins. long, $7\frac{1}{2}$ wide, 2 deep.

MAHOGANY FORCEPS CASE.

FIG. 6.



Outside Dimensions : 10 inches long ; $8\frac{1}{8}$ wide ; $2\frac{3}{4}$ deep.

This Case is specially designed for use by Army and Navy Surgeons, also in General Hospitals, Dispensaries, Schools, etc., where only extracting instruments are employed. It is brass bound, and thus suitable for all climates. Contains 15 divisions, arranged to hold 10 Forceps, 3 Elevators, Lancet, Mouth Mirror, 2 Probes, Tweezers, etc. With lock, key, and side hooks.

	£	s.	d.
Price without Instruments	1	0	0
„ with „	7	15	9

LEATHER POUCHES FOR FORCEPS.

Lined with Chamois Leather or Blue Velvet, and provided with two straps and strong leather handle. These Pouches roll up.

To hold	8	12	16	20	Forceps.
Price	9/0	11/6	13/0	14/6	each.

Leather Pouches to hold Forceps, Root Elevators, etc., made to order.

ARTICLES, VARIOUS.

	<i>s.</i>	<i>d.</i>
Elevators, Nos. 1, 2, 3, in Ebony handles (Mr. Thomson's) each	7	6
„ „ 4, 5, 6, „ „ „	4	6
Any of the above can be had in Aluminium handles at the prices quoted for Ebony handles.		
Elevator, No. 7, adjustable, in Ebony handle each	9	0
„ „ 8 (Sir John Tomes'), in Ebony handle . . „	6	0
„ (Berlin Klinik), in Ebony handle „	3	6
„ „ „ in Aluminium handle „	3	6
„ (Lecluse's), in Ebony handle „	6	6
„ Nos. 15 & 16 (Evrard's pattern), in Ebony handle „	7	6
„ No. 17, Double-ended, in Ebony handle . . . „	8	6
Fragment Nippers, with very narrow curved cutting beaks,		
Nickel-plated „	6	0
Portable Instrument Case, No. 2, in Morocco „	60	0
„ „ „ „ 5, in Mahogany „	70	0
Root Nippers, No. 1, for Crown work, straight or curved,		
with broad or narrow beaks, Nickel-plated „	6	0
Root Screws, No. 9, all Steel, Nickel-plated, loop handle . „	3	3
„ „ „ 10, „ „ T handle . . „	3	3
Student's Roll-up Leather Pouch „	10	6
„ Dissecting Case „	12	6

SHAW'S DENTAL ENGINE,

With IMPROVED ELBOW JOINT.

PRICES:

Engine (all bright parts Nickel-plated), with Improved Elbow Joint, Im- proved Cone-Regulating or No. 7 Handpiece, Arm Controller, Oil Can, and Spanner	£	s.	d.
The same, with Ash's Slip-Joint Attachment	7	0	0
The same, with No. 2 Slip-Joint Attachment	8	10	0

Parts separately:

Upper Part of Engine	4	0	0
Engine Band	0	0	5
Elbow Spring	0	1	0
Handpiece or Wrist Spring	0	0	7
Holland Cover for Engine	0	2	0
Engine Treadle	0	5	0
Flat Spring Pitman	0	4	6

ENGINE ARM CONTROLLER.

This device is the outcome of suggestions made by Mr. Louis Jeffrey, of London, and is intended for drawing back the Arm of Shaw's Engine out of the Operator's way when it is set free after use.

To apply.—Put the Controller on the top of the Upright, place the Engine Arm in position, fit Band on Driving Wheel and Pulley, hold the Arm in the position in which it is required when at rest, and fix the Controller to it and the Upright by tightening up the two serews.

After use, the Handpiece should be placed at rest in the Spiral, which should be attached to the centre of the Upright.

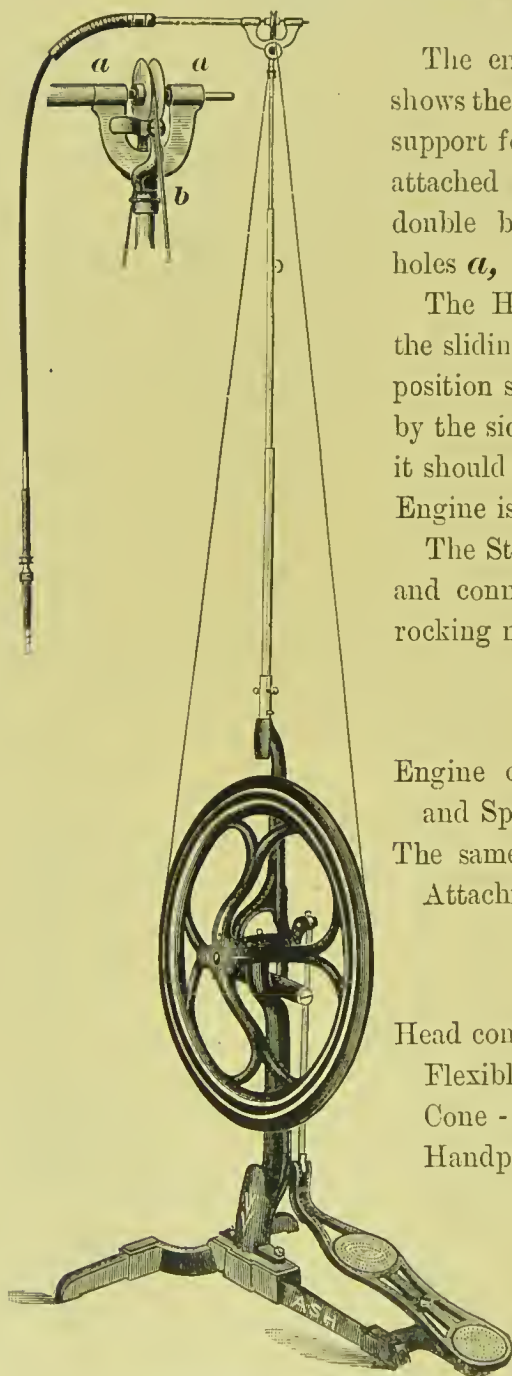
	s.	d.
Price	2	6



ENGINE AT REST.

DOUBLE-BEARING CABLE ENGINE

(ASH'S ENGLISH MANUFACTURE).



The enlarged drawing in the illustration shows the double bearing, which affords good support for the spindle to which the cable is attached and ensures steady running. This double bearing is provided with two oil holes *a, a*.

The Head of the Engine is controlled by the sliding collar *b*, and can be kept in the position shown in the illustration, or let down by the side of the Upright, in which position it should always be allowed to rest when the Engine is not in use.

The Stand consists of tripod with Treadle and connecting Rod, Upright with forward rocking motion, and large Driving Wheel.

PRICES :

Engine complete with Oil Can	£	s.	d.
and Spanner	6	0	0
The same, with Ash's Slip-Joint			
Attachment	7	0	0

Separately :

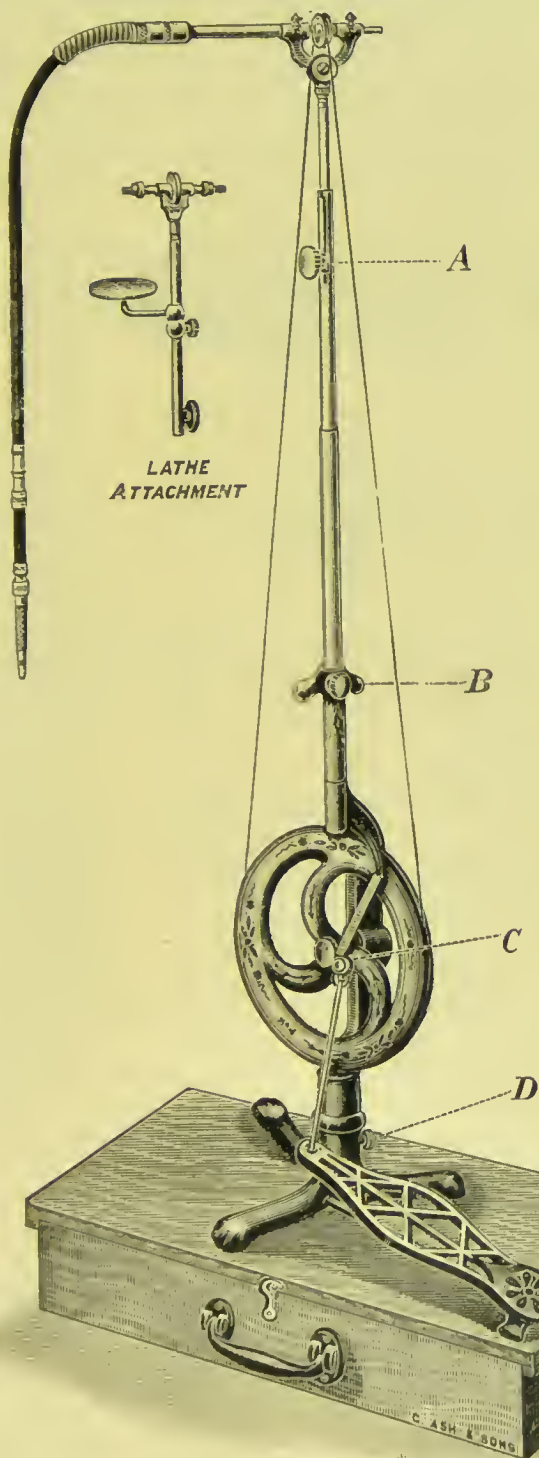
Head complete with Arm Support,			
Flexible Attachment, and Ash's			
Cone - Regulating or No. 7			
Handpiece	3	5	0

Stand complete with			
Upright and Spanner	3	0	0

ENGINE READY FOR USE.

For **ELECTRICAL ENGINES** see our List of Electrical Apparatus, which can be had on application.

ASH'S TRAVELLING ENGINE WITH CABLE HEAD.



This Engine is especially designed for Practitioners who have to visit patients or have a travelling practice. It can be put together or taken apart in a few minutes without the aid of screw-driver or spanner. The box is arranged to take the parts separately without packing, each piece being held securely in position, and there is no fear of them being broken in transit.

Weight of Engine, Lathe Attachment, and Box, complete, 32 lbs.

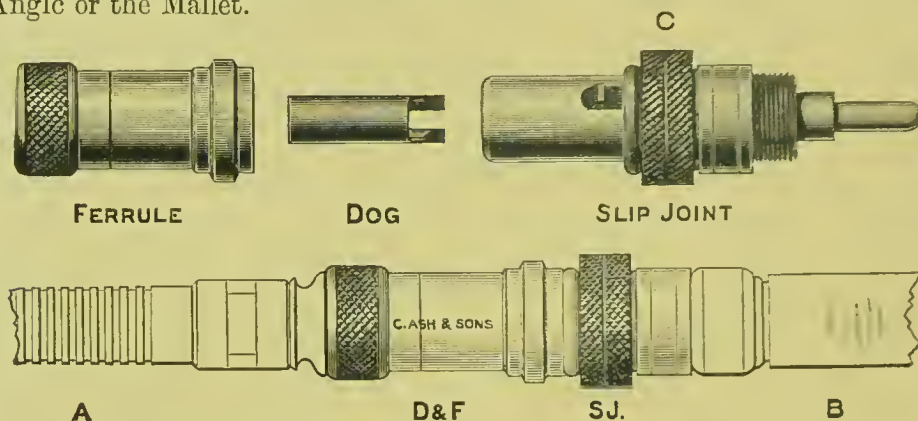
Outside dimensions of box :
 $21\frac{3}{8} \times 11\frac{1}{2} \times 5\frac{1}{4}$ inches.

PRICES :

Engine, with No. 4 or No. 7 Hand- piece, Oil-Can, and Box, com- plete . . .	£	s.	d.
	6	0	0
Lathe Attachment extra	1	0	0

ASH'S SLIP-JOINT ATTACHMENT.

The Slip-Joint Attachment is highly appreciated on account of its great usefulness. Those Operators who have it attached to their Engines are very pleased to find that the Straight Handpiece can be laid aside when they have occasion to employ the Right or other Angle Handpiece, or the Engine Mallet; and that while the Straight Handpiece is at rest it is not being worn out, as is the case when it is used to carry the Right-Angle or the Mallet.



The several parts of Ash's Attachment—viz., Slip-Joint, Dog, and Ferrule—are shown in the top row of illustrations. The lower illustration shows :—

A—Part of Handpiece.

D & F—Ferrule with Dog inside.

SJ—Slip-Joint with A, D & F connected to it.

Connection is made by simply pushing on A, D & F, and disconnection by drawing back sliding collar C on the Slip-Joint part.

B—Part of Flexible Attachment of Engine.

	£	s.	d.
Ash's Slip-Joint Attachment complete	1	2	6

Parts separately :—

Slip-Joint	0	16	6
Ferrule	0	4	3
Dog	0	2	0

No. 2 SLIP-JOINT ATTACHMENT.

	£	s.	d.
Price, complete	1	11	3

Parts separately :—

Slip-Joint part C 2	1	5	0
Dog „ D 2	0	2	1
Ferrule „ F 2	0	4	2

ASH'S

No. 4 CONE-REGULATING HANDPIECE.



No. 4.

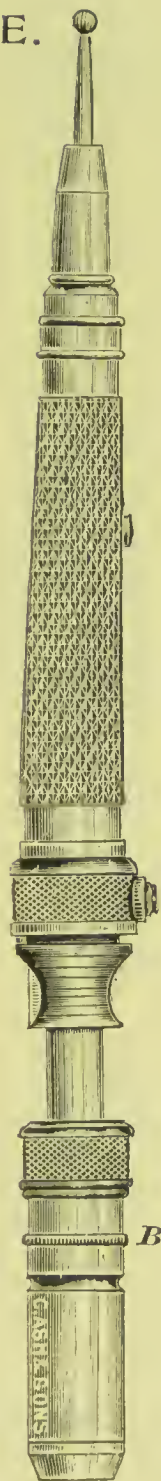
PRICES:

	s.	d.
No. 4 Handpiece, as illustrated . . .	35	0
„ „ with Flexible Attachment for Shaw's Engine . .	40	0
„ Handpiece with Flexible Attachment for Double-bearing Cable or White's Engine	42	6

No. 7 CHUCK HANDPIECE.

PRICES:

No. 7 Handpiece, without mount B , ready for attaching to Flexible Attachment	s.	d.
	35	0
No. 7 Handpiece with Flexible Attachment for Shaw's, Double-bearing Cable, or White's Engine . .	42	6



No. 7.
H

Circular of Directions for the care of above Handpieces supplied with each.

ASH'S ASEPTIC RIGHT-ANGLE ATTACHMENTS AND HANDPIECES—

Nos. 4 and 5.

(PATENT APPLIED FOR.)

The special features of these Attachments and Handpieces are as follows :—

1. They can be taken to pieces, every part sterilised, and put together again in a few moments.
2. They are made with small coned nose, which gives steadiness to the Bur, affords the Operator a clear view of his work, and enables him to reach with ease the bottom of deep cavities.
3. The steel frame of the Head of each is very strong, all the working parts are securely enclosed and the oil is retained in them ; they are thus rendered, as far as possible, inaccessible to saliva and dust.
4. One drop of oil put in the lubricating hole, underneath the spring catch, flows to all the working parts.
5. They are constructed to take both styles of right-angle instruments—Nos. 1 and 2—as shown in the illustrations.
6. The Heads can be fitted to most existing right-angle lower parts.
7. All the parts are interchangeable, and those liable to wear out can be readily and inexpensively renewed.

Directions for taking apart, etc., supplied with each
Attachment and Handpiece.

ASH'S ASEPTIC ATTACHMENTS, ETC.—*continued.*

No. 4.

ATTACHMENT.

HANDPIECE.

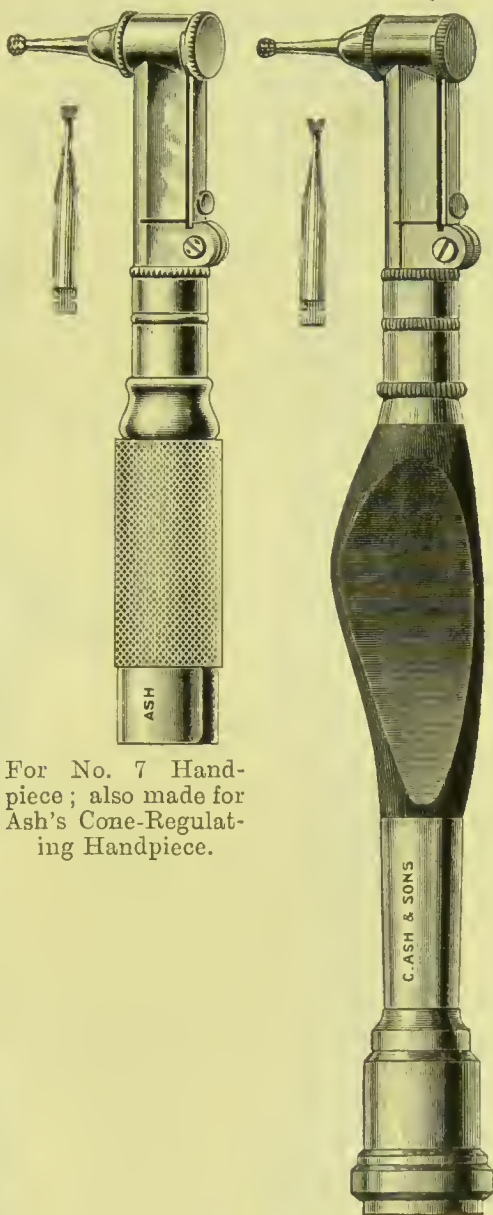


For No. 7 Hand-
piece; also made for
Ash's Cone-Regulat-
ing Handpiece.

No. 5.

ATTACHMENT.

HANDPIECE.



For No. 7 Hand-
piece; also made for
Ash's Cone-Regulat-
ing Handpiece.

For Ash's Slip-Joint
or No. 2 Slip-Joint.

For Ash's Slip-Joint
or No. 2 Slip-Joint.

PRICES:

<i>PRICES:</i>		£	s.	d.
No. 4 Attachment, for No. 7 or Ash's Cone-Regulating Handpiece	each	1	0	0
No. 4 Handpiece, for Ash's or No. 2 Slip-Joint Attachment.	„	1	12	0
No. 5 Attachment, for No. 7 or Ash's Cone-Regulating Handpiece	„	1	0	0
No. 5 Handpiece, for Ash's or No. 2 Slip-Joint Attachment	„	1	12	0

In ordering, be careful to state which is required.

ANGLE HANDPIECES.**No. 2 RIGHT, OBTUSE, ACUTE, and CONTRA.**

No. 2 OBTUSE.



No. 2 ACUTE.



No. 2

CONTRA ANGLE.

PRICES:

No. 2 Right, Obtuse, and
 Acute Handpieces, for
 Ash's or No. 2 Slip-
 Joint . . . each

£ s. d.
 1 13 4

The same, for Nos. 4, 6
 or 7 Handpieces . .

1 5 0

Contra Angle, for Ash's
 or No. 2 Slip-Joint . .

2 1 8

The same, for Nos. 4, 6

No. 2 RIGHT ANGLE. or 7 Handpieces . .

1 13 4

POWER'S ENGINE MALLET

WITH IMPROVED STOP-ACTION.

FIG. 5.

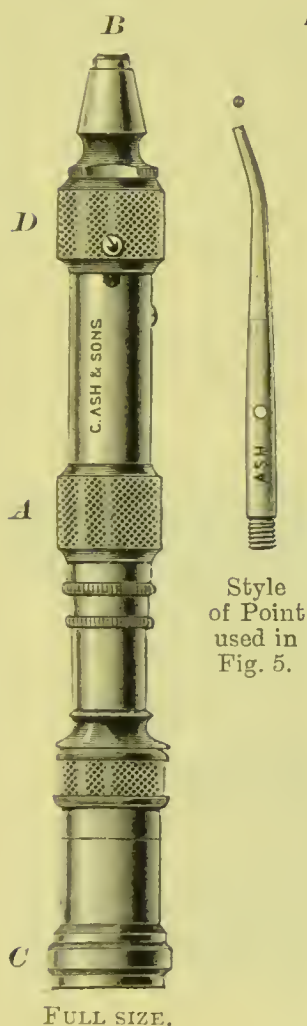
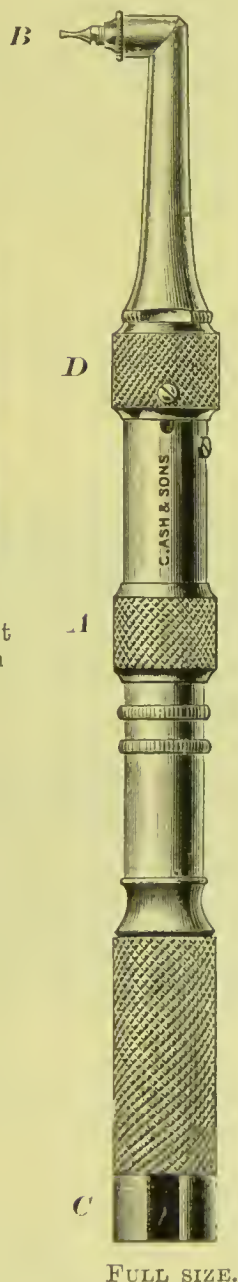


FIG. 6.



Few Engine Mallets can be compared with Power's for range of blow, efficiency, ease of adjustment, durability and excellence of workmanship. They work equally well whichever way the Engine is driven.

CAUTION.—There are some very inferior imitation Power's Mallets in the market, which are so badly constructed that they are dear at any price.

The only genuine ones made bear our name—C. Ash & Sons, England—and we strongly advise purchasers not to accept any other.

DESCRIPTION :

Fig. 5.—Straight Mallet with Stop-Action, **D**, which upon being drawn downwards with the finger stops the blow while the Engine is in motion, and enables the Operator to pick up gold, or to use the Mallet temporarily as a Hand Plugger.

Fig. 6. — Right-Angle Mallet with Stop-Action, **D**.

A.—Milled Collar for regulating the strength of blow.

B.—Nose end of Mallets.

C.—Tang end of Mallets.

To keep in good working order, apply a little oil occasionally between the nose and the outer case at **B**, and pour a few drops down by the tang at **C**.

For Prices see next page.

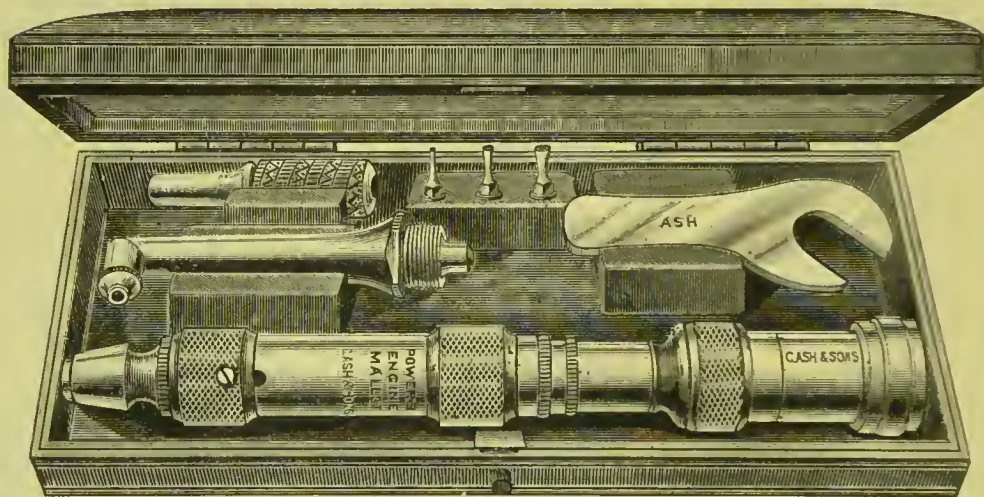
POWER'S ENGINE MALLET—*continued.*

<i>PRICES:</i>		£	s.	d.
Fig. 5.—Straight, for No. 4 or No. 7 Handpiece		1	4	0
The same, for Ash's Slip-Joint		1	12	6
" " American No. 1 or No. 2 Slip-Joint		1	12	6
Fig. 6.—Right Angle, for No. 4 or No. 7 Handpiece		1	12	6
The same, for Ash's Slip-Joint		2	2	0
" " American No. 1 or No. 2 Slip-Joint		2	2	0
Three Plugger Points	extra	0	3	9
Leather Case		0	4	6

POWER'S INTERCHANGEABLE MALLET

WITH STRAIGHT AND RIGHT-ANGLE HEADS.

FIG. 7.



This Case shows the Straight Mallet with Right-Angle Head, three Plugger Points for right angle, Key for screwing same into Head, and Spanner for fixing and unscrewing the Heads.

PRICES:

Fig. 7.—Interchangeable Mallet, as illustrated, complete	£	s.	d.
in Case, for Slip-Joint	2	15	0
The same, for No. 4 or No. 7 Handpiece	2	7	6

In ordering Mallets for Slip-Joint Attachment, please state for which they are required.

INSTRUMENTS

FOR THE VARIOUS STYLES OF HANDPIECES AT PRESENT IN USE.

For Handpieces

Nos. 4, 7 and 8.



For Handpiece

No. 6.



N.B.—When ordering Engine Instruments, please state for which Handpiece they are required. If there is any doubt on this point, send an old Bur as a pattern.

INSTRUMENTS FOR ANGLE ATTACHMENTS.



FIG. 1.



FIG. 2.

Fig. 1 is for Nos. 1, 3 and 4 Angle Attachments and Handpieces.

Fig. 2 is for Nos. 2 and 5 Angle Attachments and Handpieces.

When ordering, please specify style required.

LONG BURS AND DRILLS

FOR Nos. 1, 3 and 4 ANGLE ATTACHMENTS AND HANDPIECES.

Burs and Drills for these Attachments and Handpieces are frequently required longer than Fig. 1, illustrated above, and to meet the demand which has arisen for them, we keep the most useful forms and sizes in stock, **an eighth of an inch longer than shown in the illustration.**

To distinguish them from the regular kind we have named them: Long Burs and Drills for Angle Attachments and Handpieces.

They are charged at the same prices as the regular kind.

ASH'S BEST QUALITY STONED CAVITY BURS.

For excellence of temper, strength of blades, cutting power, and fitness for the work for which they are intended, our **Best Quality Stoned Cavity Burs** are highly esteemed by Dentists in all parts of the world.

They are made from carefully selected steel of the finest quality; they are regular in shape and true to gauge; all the blades on them are of equal length, and each one is brought to a keen-cutting edge by means of Arkansas Stone, with the result that they cut smoothly, rapidly, and with a minimum of pain to the patient.

The large demand which there is for them, coupled with our increased means of production, enables us to offer them to the Profession at the following favourable rates.



ASH'S BUR GAUGE.

For Nos. 4 and 7 Handpieces, and for Angle Attachments and Handpieces which take Nos. 1 and 2 styles of right-angle Burs, the prices are as follows :—

	Per doz.	Per $\frac{1}{2}$ gross.
	s. d.	s. d.
6/0 to size G on our Bur Gauge	5 0	27 0
F to D sizes ,, ,, 	6 0	33 0
C to A ,, ,, ,, 	9 0	48 0

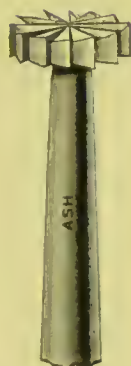
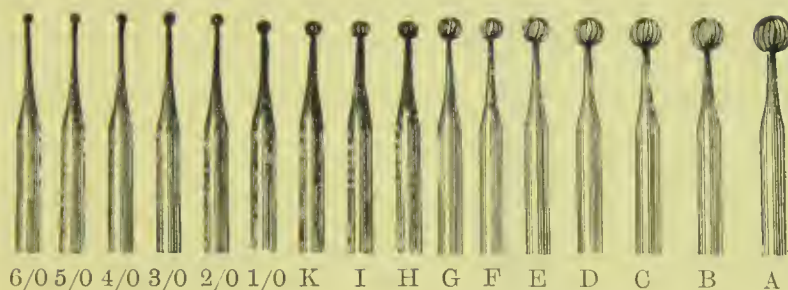
For No. 6 Handpiece :

6/0 to G on our Bur Gauge	6 0	30 0
F to D ,, ,, 	8 0	42 0
C to A ,, ,, 	11 0	—
Ash's Bur Gauge		2 6

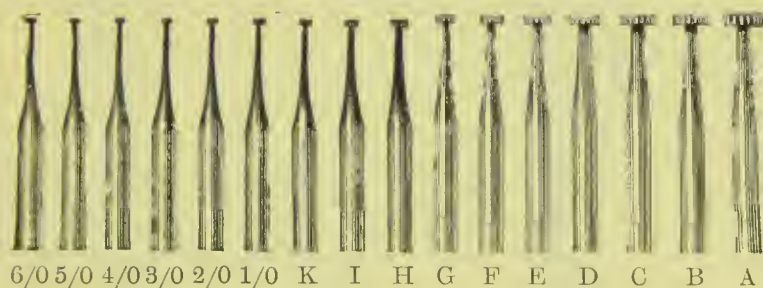
ASH'S BEST QUALITY BURS—continued.



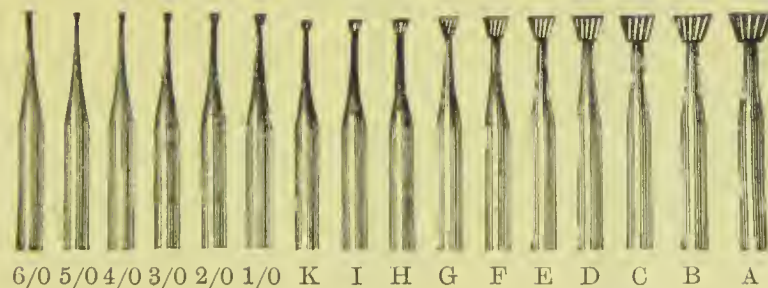
ROUND.



WHEEL.



INVERTED CONE.



PRICES:

						Per doz.		Per ½ gross.		
						s.	d.	£	s.	d.
Sizes 6/0 to G on Bur Gauge	.	.	.	.	.	5	0	1	7	0
„ F to D	„	„	.	.	.	6	0	1	13	0
„ C to A	„	„	.	.	.	9	0	2	8	0

ASH'S BEST QUALITY STONED CAVITY BURS—continued.



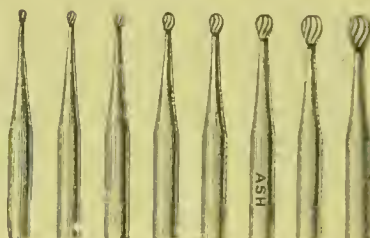
SHALLOW INVERTED CONE.



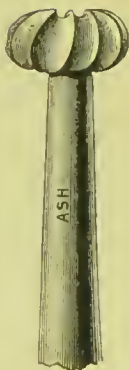
I H G F



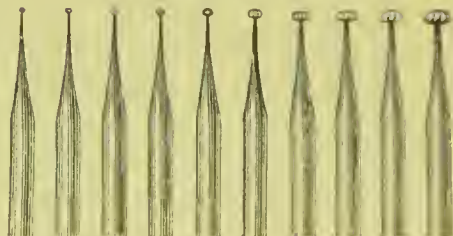
PEAR SHAPE.



3/0 2/0 1/0 K I H G F



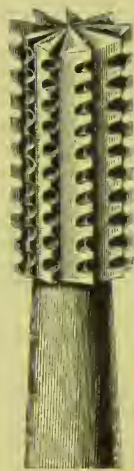
OVAL.



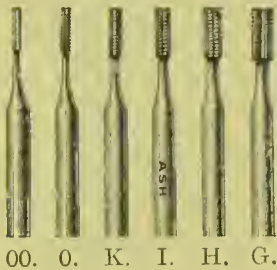
4/0 3/0 2/0 1/0 K I H G F E

PRICES:						Per doz.		Per $\frac{1}{2}$ gross.		
Sizes 6/0 to G on Bur Gauge						s.	d.	£	s.	d.
„	F to D	„	„	„	„	5	0	1	7	0
„	C to A	„	„	„	„	6	0	1	13	0
„		„	„	„	„	9	0	2	8	0

ENAMEL-CUTTING BURS.



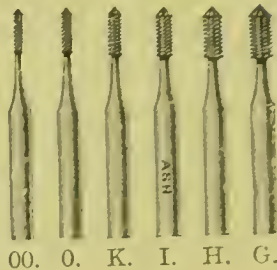
FLAT FISSURE.



ENLARGED VIEW.



POINTED FISSURE.



ENLARGED VIEW.

The heads of these Burs are fluted, as shown in the enlarged illustrations, each leaf is vertical, and has a saw edge. They cut enamel with great rapidity, and are very highly spoken of by those who use them.

PRICES:

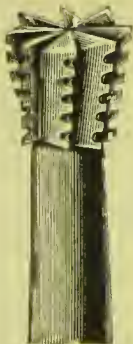
		s.	d.
All sizes for	Handpieces Nos. 4, 7, 8	per doz.	5 0
"	Handpiece No. 6	"	7 0
"	any style of Angle Handpiece or Attachment	"	5 0

CROSS-CUT CAVITY BURS.

ROUND.



INVERTED CONE.



WHEEL.



OVAL.



BUD.



PEAR.



Each shape is made in fourteen sizes, ranging from No. 1, smallest, to No. 14, largest, or from 4/0 to C on our Bur Gauge (see page 104).

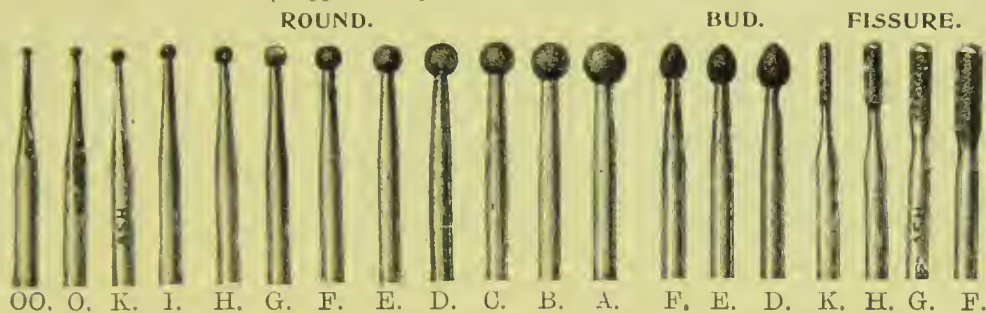
PRICES:

		For No. 6 Handpiece.	For any other Handpiece or any Attachment.
		s. d.	s. d.
Sizes 1-8, any shape.	Small	each 0 7	0 5
" 9-11 " "	Medium	" 0 8	0 6
" 12-14 " "	Large	" 0 11	0 9

DIAMOND BURS AND DISCS,

FOR TRIMMING AND POLISHING ENAMEL MARGINS.

(Suggested by Dr. J. LEON WILLIAMS.)



DISC BURS.

Dr. Jenkins, of Dresden, says of these Diamond Burs :—

"They are superb. They make it possible to polish the edges of a cavity easily and most perfectly; and grind so smoothly as to be a great comfort to the patient. . . . They are invaluable for my purpose in Inlay work."

We have every confidence in their lasting qualities. They are very carefully charged with Diamond. In use they should be run at high speed, and kept well wetted with water.

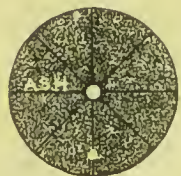
Prices for any Handpiece :

	s.	d.
Round, Bud, Fissure, any size illustrated . . . each	2	6
Discs for fissures, etc., either size, S (small), L (large)	2	6

ASH'S GROOVED DIAMOND DISCS.

(Registered. Reg. No. 310,731.)

One of the most prominent and valuable features in these Diamond Discs is, that they will last twice as long as any other and are not so readily spoiled by the application of pressure to the sides and edge. They should be kept well wetted with water during use and run at high speed.



In our practical, everyday experience of Diamond Discs we find that these grooved discs will not only stand hard wear, but that they are superior to any other which we have ever tried.

We make them in two forms, as under :—

Charged on both sides and on edge.

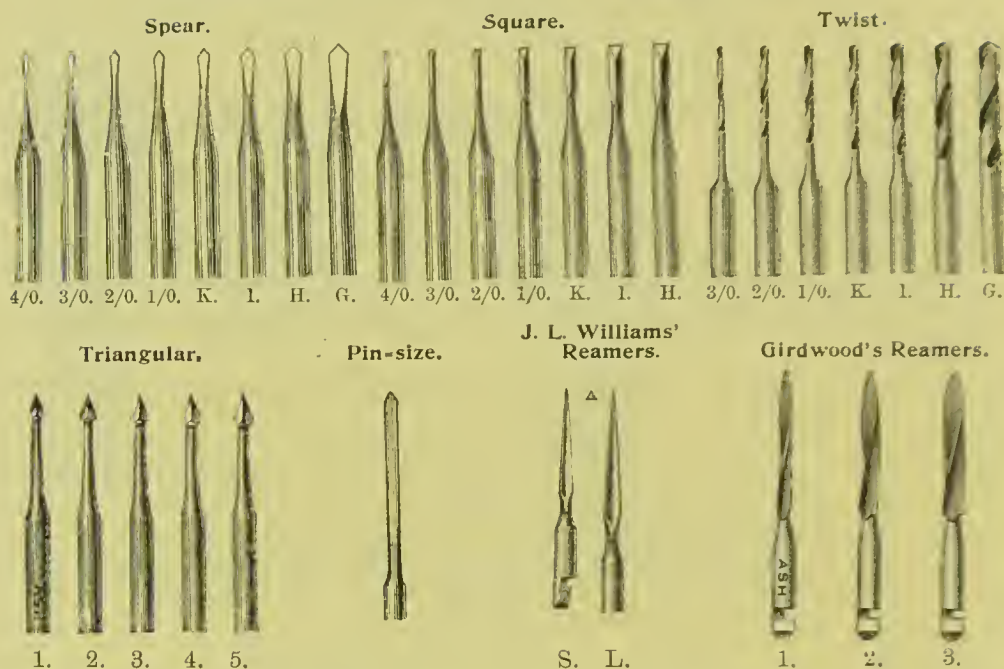
Sizes and Prices :	s.	d.
$\frac{1}{2}$ inch, 4/6 ; $\frac{3}{4}$ inch, 6/0 ; $\frac{7}{8}$ inch . . .	7	6

Charged on both sides but not on edge.

Sizes and Prices :	s.	d.
$\frac{1}{2}$ inch, 4/6 ; $\frac{3}{4}$ inch, 6/0 ; $\frac{7}{8}$ inch . . .	7	6

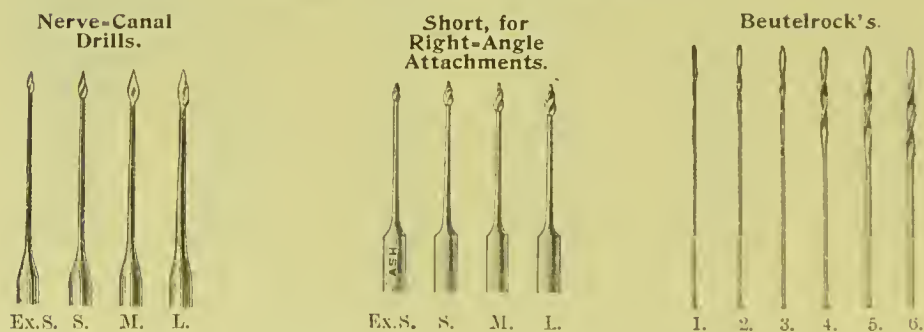
Cup-shape, charged on both sides and on edge, $\frac{3}{4}$ inch and $\frac{7}{8}$ inch diameter	each	7 6
---	------	-----

DRILLS AND ROOT REAMERS.



Prices for Nos. 4 and 7 Handpieces or any Attachment :		s.	d.
Spear, Square, and Triangular Drills	each	0	4½
Twist Drills	"	0	9
Pin-size Drills	"	0	9
Root Reamers (Dr. J. Leon Williams')	"	1	3
" " (Mr. Girdwood's)	"	1	9

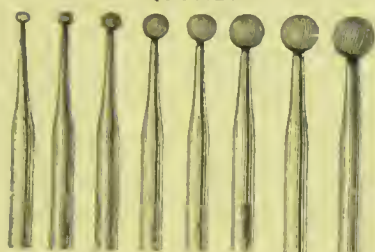
NERVE-CANAL DRILLS.



Prices for Nos. 4 and 7 Handpieces or any Attachment :		s.	d.
Nerve-Canal Drills	each	0	10
Beutelrock's	"	1	0
Short Nerve-Canal Drills, for Attachments only	"	0	10

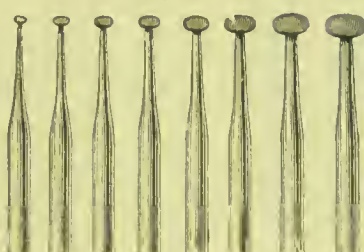
STONED FINISHING BURS.

ROUND.



I. H. G. F. D. C. B. A.

OVAL.



I. H. G. F. E. C. B. A.

INVERTED CONE.



H. G. F. E. D. C. A.

PEAR.



I. H. F. E. D. C. A.

BUD.



I. G. F. E. D. C. A.

FLAME.



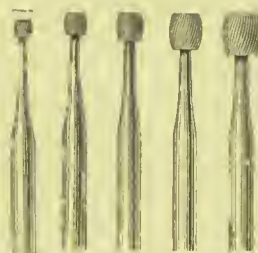
K. H. G. F. E. C.

WHEEL.



H. F. D. C. A.

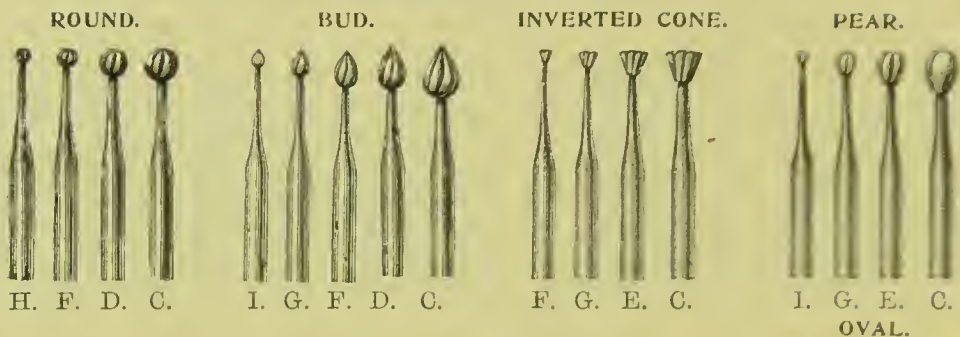
BARREL.



H. G. E. C. B.

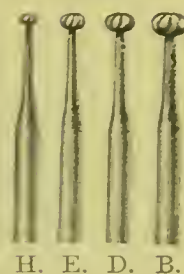
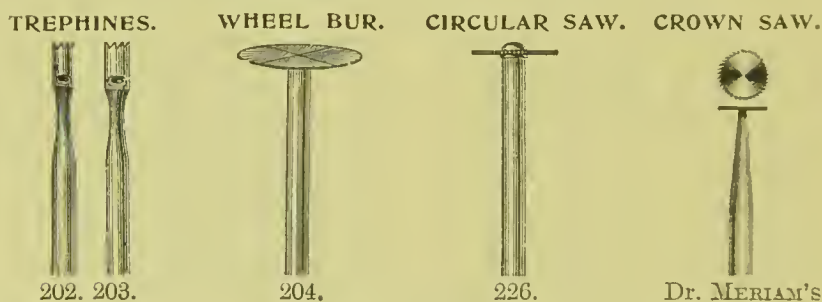
PRICES:

	s.	d.
Sizes A, B, C, D, on Bur Gauge (see page 104) each	1	9
Other sizes "	1	3
Finishing Burs re-stoned per doz. from 5/0 to	7	6

BURNISHERS.

Prices for Nos. 4 and 7 Handpieces or any Attachment :

		s.	d.
With Corrugated Heads, any size . . .	each	1	0
„ Smooth „	„	0	10

**INSTRUMENTS, VARIOUS.**

Prices for Nos. 4 and 7 Handpieces or any Attachment :

		s.	d.
Trephines	each	1	0
Wheel Burs—large, medium, or small	„	2	6
Circular Saws— „	„	1	9
Crown Saw, Dr. Meriam's	„	1	3

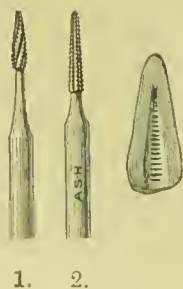
ROOT ROUGHENERS

(Suggested by Mr. W. R. HUMBY).

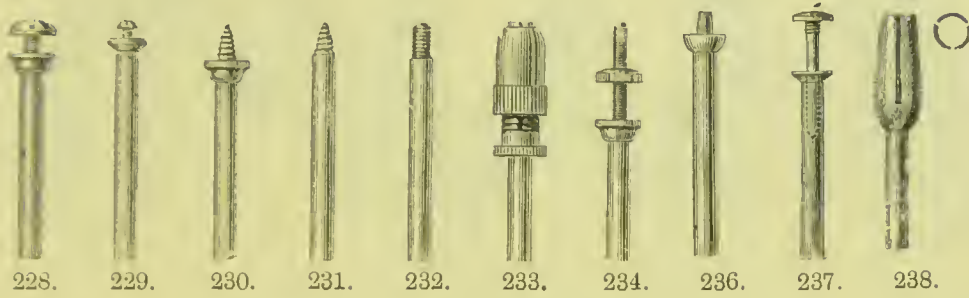
Mr. HUMBY says: “The advantages I claim for the root rougheners are:—

1. The hole is roughened in the widest diameter of the root; and
2. The size of the grooves is automatically proportioned.”

Prices for Nos. 4 and 7 Handpieces or any Attachment . . . (Fig. 1 or 2) each 0 6



MANDRELS AND PORTE-POLISHERS.



Prices for any Handpiece or Attachment :

		s.	d.
Huey's Mandrel	(Fig. 228) each	0	9
Disc-Carrier Mandrel	(" 229) "	1	0
Screw Mandrel with Shoulder	(" 230) "	0	9
" " without "	(" 231) "	0	4
Stem with Screw end	(" 232) "	0	3
Screw Porte-Polisher	(" 233) "	1	3
Parting-nut Mandrel	(" 234) "	0	9
Shouldered Mandrel with plain end	(" 236) "	0	9
Elliott's Paper Disc Mandrel	(" 237) "	1	0
Split Porte-Polisher	(" 238) "	0	10

PAPER DISC MANDRELS.



Prices for any Handpiece or Attachment :

		s.	d.
Pin-head Mandrel	(Fig. 239) each	1	3
Paper Disc "	(" 311) "	2	0
Smith's Mandrel	(" 312) "	2	0
Register's "	(" 315) "	2	0
Vajna's "	"	1	6
Sachs' "	"	2	0
Victor "	"	2	0

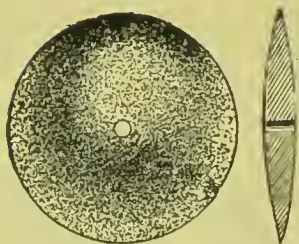


So firmly is the reputation of Carborundum now established that the demand for it rapidly increases. Additional experience has enabled the manufacturers to improve the quality, and no pains will be spared to maintain what has been achieved and to attain to even a greater degree of excellence if that be possible.

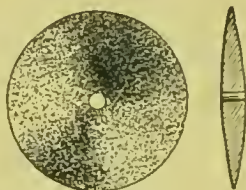
GUARANTEE.—We warrant all the Carborundum goods we sell, and will exchange or credit any that do not give satisfaction.

CARBORUNDUM DISCS.

KNIFE EDGE.



1 inch diameter.

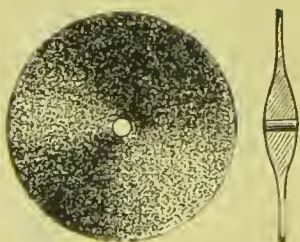


$\frac{3}{4}$ inch diameter.

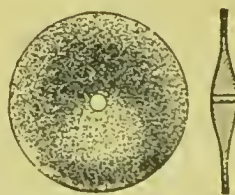


$\frac{1}{2}$ inch diameter.

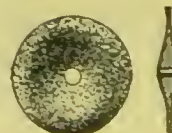
THICK CENTRE AND THIN EDGE.



1 inch diameter.



$\frac{3}{4}$ inch diameter.



$\frac{1}{2}$ inch diameter.

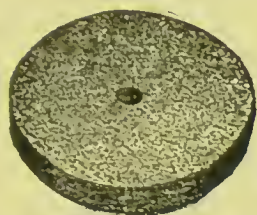
Price, any size or shape. each

s.	d.
0	4

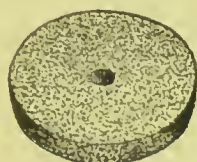
All the Stump Wheels, Discs, and Cups for Engine are stocked in coarse and fine grits, which correspond to our coarse and fine Corundum Discs for Engine.

CARBORUNDUM STUMP WHEELS.

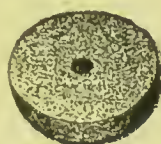
PLAIN, SQUARE EDGE.



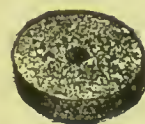
1 inch diameter.



$\frac{3}{4}$ inch diameter.



$\frac{5}{8}$ inch diameter.



$\frac{1}{2}$ inch diam.

Made in two thicknesses, $\frac{1}{8}$ and $\frac{3}{16}$ inch.

Price, any size or thickness each s. d.
0 4

STUMP WHEELS WITH ROUND EDGES.

Diameter $\frac{1}{2}$ inch, $\frac{3}{4}$ inch, and 1 inch.

Each size made in two thicknesses, $\frac{1}{8}$ and $\frac{3}{16}$ inch.

Price, any size or thickness. each s. d.
0 4

CARBORUNDUM DISCS, POINTS, Etc.



136.



137.



138.



140.



141.



142.



143.

Price, any shape, unmounted . (Figs. 136-143) each s. d.
0 4



144.



145.



146.



Thicknesses.



150.



154.



158.



175.

Points 150, 154, 158 are made in these four thicknesses: $\frac{1}{16}$, $\frac{1}{8}$, $\frac{3}{16}$, and $\frac{1}{4}$ inch. Butler's Point (Fig. 175), for use in Porte-Polisher, is supplied in boxes of 10 inches, cut up into assorted lengths. Both ends are square, but one can readily be pointed by holding it against a revolving carborundum wheel in the lathe.

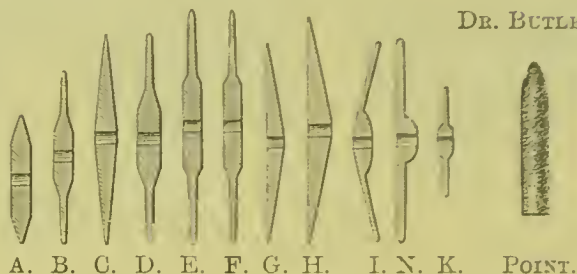
PRICES:

Points, unmounted	(Figs. 144, 145) each	s. d. 0 3
" "	(Fig. 146) "	0 4
" " Square edge	(Figs. 150, 154, 158) "	0 3
" for Porte-Polisher, Dr. Butler's	(Fig. 175) per box	2 1
		1 2

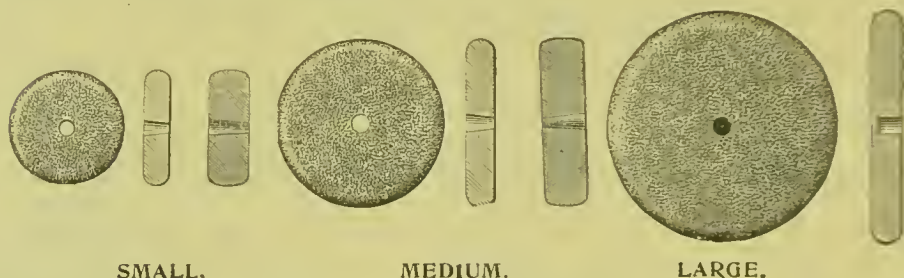
CORUNDUM DISCS AND POINTS.**DISCS**

(DR. ARTHUR'S PATTERNS).

These Corundum Discs are greatly appreciated for their splendid cutting properties. They are made extremely thin, and are suitable for the most delicate separations.



DR. BUTLER'S

WHEELS FOR STUMPS.

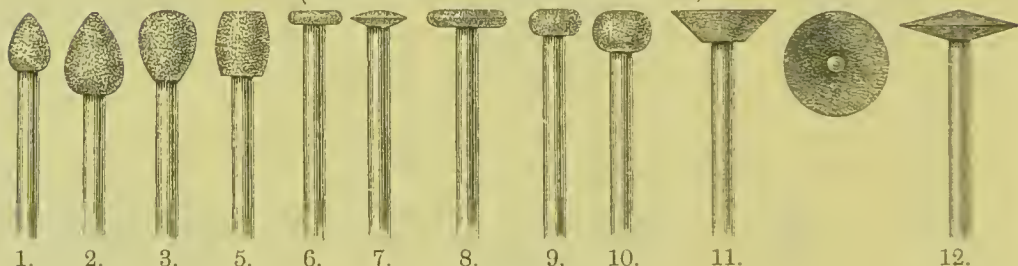
SMALL.

MEDIUM.

LARGE.

POINTS

(DR. NORTHROP'S PATTERNS).



1.

2.

3.

5.

6.

7.

8.

9.

10.

11.

12.

PRICES:

			s.	d.
Discs (Mr. Arthur's).	Size A	unmounted, per doz.	1	8
"	All other sizes	" "	3	0
Wheels for Stumps, small, medium, and large	"	" "	3	0
Points (Dr. Northrop's), Figs. 1-12	"	" "	1	8
" (Dr. Butler's), for Porte-Polisher	"	" "	1	8

Corundum Discs, Wheels, and Points, as above, mounted, extra per doz. 4s.

Supplied in Two Grits, known as Fine and Coarse.

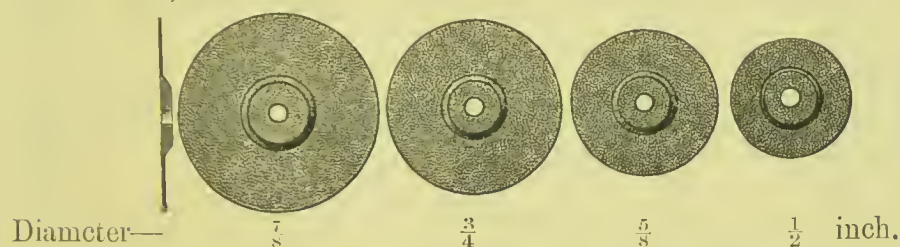
When ordering mounted Corundum Discs and Points, please state for which Handpiece they are required.

ASH'S RUBBER-CARBO SEPARATING DISCS AND STUMP WHEELS.

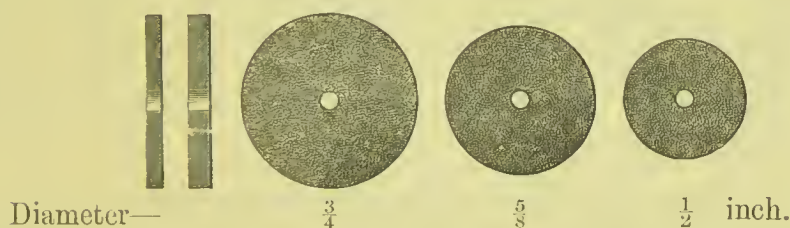
The mixture of India-Rubber and Carborundum, of which these Discs and Stump Wheels are composed, offers a threefold advantage, viz. :—

1. Toughness with edge strength;
2. Great cutting and abrasive power;
3. It does not gum-up in use.

The **Discs** are very thin, cut rapidly, and do not easily break. Made in four sizes, as under :—



The **Stump Wheels** are made in the three sizes here shown, in thin and thick :—



In ordering, be careful to state whether thin or thick wheels are wanted.

			s.	d.
Discs, any size	each	3d.	2	6
Stump Wheels, any size, thin or thick	„	3d.	2	6

PAPER AND CLOTH DISCS. In boxes containing 525 Discs, namely : 150 each Emery-Paper, Sand-Paper, Cuttle-Fish Paper, and 75 Emery-Cloth Discs. Assorted diameters, $\frac{5}{8}$, $\frac{3}{4}$ and $\frac{7}{8}$ of an inch.

		s.	d.
Price	per box	2	1

THICKENED-RIM SAND-PAPER DISCS. These can be mounted on any of the Paper Disc Mandrels. Supplied in two sizes, $\frac{5}{8}$ and $\frac{7}{8}$ of an inch in diameter. Put up in boxes containing 400 Discs, assorted grits.

		s.	d.
Price, either size	per box	4	0

DARBY'S HARD BUFF POLISHERS.

Put up in boxes containing 100 Assorted Sizes, with directions for use.

		s.	d.
Price	per box	1	8

ARKANSAS STONES.

(Suggested by Dr. JENKINS, of Dresden.)



Invaluable in **Inlay Work** for smoothing the edges of cavities, etc.; also most useful for polishing gold fillings.

As will be seen from the illustrations, which show the stones full size, they are small and mounted on slender stems, hence they require to be used with care. They are made in large and small sizes of five most useful shapes.

											s.	d.
Price	.	.	.	.	.	.	.	.	.	(Figs. 1-10 each)	1	9
„	.	.	.	.	.	.	.	.	.	per set of 10	17	6

ASH'S TAN-STONE.

There is no stone before the Profession that is equal to our Tan-Stone for the purposes for which it is intended.

After being cut to shape each point or wheel is fired; this renders it tough and conserves its abrasive power.

TAN-STONE CAVITY POINTS.

MADE IN THE SAME SIZES AND SHAPES AS THE ARKANSAS STONES SHOWN ABOVE.

For smoothing cavity margins. dressing down the edges of inlays, and for the same uses as the larger points shown below.

Price, any size or shape	.	.	.	.	.	.	.	.	.	each	s.	d.
											0	10

TAN-STONE POLISHING STONES.

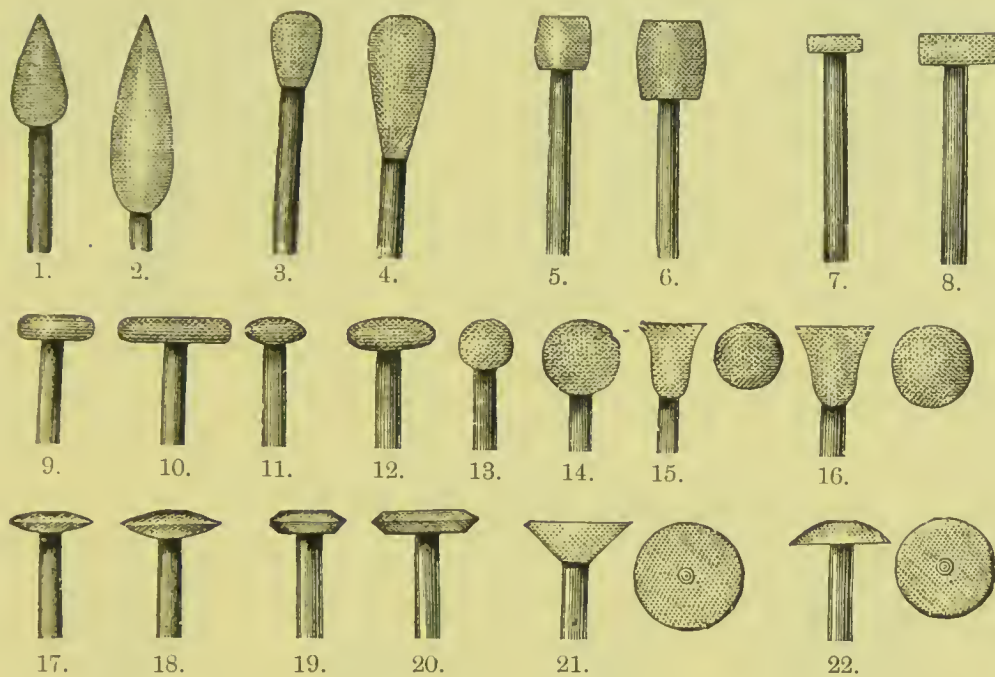
For trimming and smoothing gold and amalgam fillings, to which they impart a fine surface.

Price, for any Handpiece (Figs. 1-9) each	1	0
---	---	---

In ordering, state for which Handpiece they are wanted.

POLISHING STONES.

ARKANSAS, HINDOSTAN, AND WATER OF AYR.

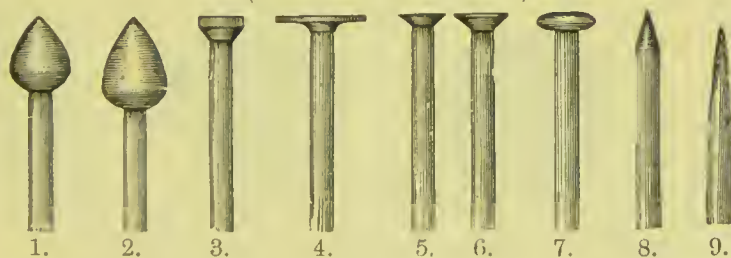


Prices of above for any Handpiece :

			s.	d.
American Arkansas Stones, mounted . . .	(Figs. 1-22)	each	4	0
Ash's " " " " " " " "	(" ")	"	2	6
Hindustan " " " " " " " "	(" ")	"	1	3
Water of Ayr (Scotch) " " " " " " " "	(" ")	"	0	9
" " " " " " " " unmounted . . .	(" ")	"	0	4

WOOD POLISHING POINTS.

(DR. SOUTHWOOD'S.)



Porte-Polishers 233 and 238, on page 113, will carry these.

Wood Polishing Points, assorted . . .	(Figs. 1-9)	per box of 100	2	6
---------------------------------------	-------------	----------------	---	---

<i>Separately</i> —Nos.	1.	2.	3.	4.	5.	6.	7.	8.	9.
Per 100 .	3/2	3/2	2/1	2/1	2/1	2/1	3/2	2/1	2/1

MOORE'S DISCS AND MANDREL.

FIG. 4.

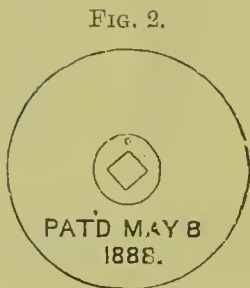


FIG. 3.

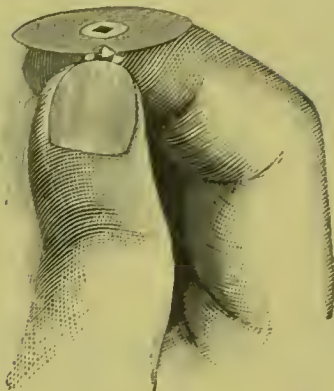


Fig. 2. Disc with metal centre.
,, 3. Mandrel with split square head and neck.
,, 4. Shows how the Mandrel is held to remove a disc.

The Advantages of the Invention are these :

The Discs cannot be torn in the centre ; they are held securely by the Mandrel whichever way the Engine is run ; and there is no screw to lose.

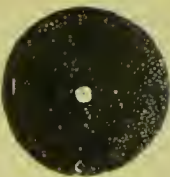
Kinds—Emery Paper, Sand-Paper, and Cuttle-Fish Paper.

PRICES :

		s.	d.
Discs, assorted in sizes $\frac{7}{8}$ and $\frac{3}{4}$ inch diameter	per box of 1,000	10	6
" " " $\frac{3}{4}$ " $\frac{5}{8}$ " "	" 500	5	6
Any size or kind	" 50	0	7
Mandrel for any Handpiece		2	6

ENGINE POLISHING DISCS.

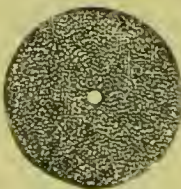
These Polishing Discs are made from the best materials ; they are carefully cut, retain their rigidity for a considerable time in use, and the shellac with which they are coated does not crack when they are bent.



Cuttle-Fish.



Emery.



Garnet.



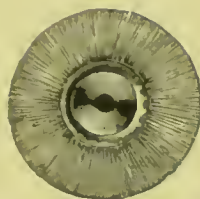
Sand-Paper.

Made in three sizes— $\frac{7}{8}$, $\frac{3}{4}$, and $\frac{5}{8}$ inch diameter.

PRICES :

		s.	d.
Cuttle-Fish Paper, Coarse or Fine grit	per box	0	5
Emery Paper, Coarse, Medium, or Fine grit	"	0	5
Garnet Paper " " " " " "	"	0	5
Sand-Paper, Coarse or Fine grit	"	0	5

POLISHING BRUSHES, Etc.

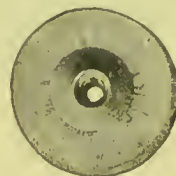
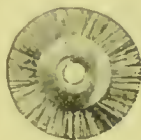
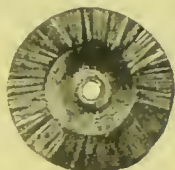


PRICES:

	s.	d.
Straight Polishing Brushes, metal centres . . . each	0	9
" " " bone " . . . "	0	6
Cup-shape Polishing Brushes, bone centres, with Stem "	0	9
Straight " " " " " "	0	9
Steel-wire Brushes for cleaning Burs "	1	3

ROBINSON'S BRISTLE DISCS.

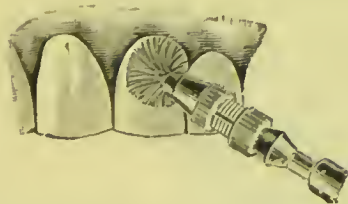
WITH METAL CENTRES, FOR CLEANING AND POLISHING TEETH.



PRICES:

PRICES:			s.	d.
No. 11, Standard Stiffness, or extra Stiff	.	per doz.	4	0
No. 9	„	„	4	0
Cup Shape	„	„	4	0
Small Cup Shape (not illustrated), extra Stiff	.	„	4	0
Soft Polishing	.	„	4	0

TOOTH POLISHING BRUSH.



The Metal Stem in which the bristles of the brush are fixed is made to fit the Screw-Clamp Porte-Polisher here illustrated.

Price, with stiff, medium, or soft bristles . . .	per doz.	1	0
Screw-Clamp Porte-Polisher for any Handpiece . .	each	1	3

OIL CANS.

FIG. 1.



3 $\frac{1}{4}$ Inches High.
1 $\frac{1}{2}$ „ Diameter.

FIG. 2.



3 $\frac{3}{4}$ Inches High.
1 $\frac{1}{8}$ „ Diameter.

FIG. 3.



3 $\frac{1}{2}$ Inches High.
1 $\frac{7}{8}$ „ Diameter.

		s.	d.
Bonwill's, Nickel-plated	(Fig. 1)	2	0
Flat Oil Can, Nickel-plated	(„ 2)	1	0
Ordinary Oil Can, Nickel-plated	(„ 3)	2	0

ENGINE BIT OILER

(DR. HOLMES').



With weighted base to keep it firm and steady in use. The milled top part, which unscrews to admit the oil, is provided with a leather washer that has a small slit in it through which the instrument passes, and when it is withdrawn the washer removes the surplus oil.

	s.	d.
Price, Nickel-plated	2	0

OIL FOR ENGINES, Etc.

This is the finest white transparent oil that can be obtained. It is eminently suited for the delicate mechanism of Dental Engines, Handpieces, Mallets, etc.; does not gum or become sticky, and is quite free from smell.

	s.	d.
Two-ounce Bottle	0	6
Six-ounce „	1	6

ARTICLES, VARIOUS.

Engine Pliers, for use in fitting Elbow or Handpiece	£	s.	d.
Springs each	0	2	6
Flexible Attachment for Shaw's Engine „	0	7	6
„ „ „ Double-bearing Cable Engine „	0	7	6
Outside Springs for above „	0	0	6
Leather Covers „ „ „	0	0	3
Right-Angle Attachments, No. 1, for any Handpiece . . .	1	0	0
Acute „ „ „ „ . . .	1	0	0
Obtuse „ „ „ „ . . .	1	0	0
Bonwill's No. 3 Improved Engine Mallet	2	10	0
Nerve-Canal Reamers, Dr. Talbot's, in 3 sizes . . . each	0	0	10
„ „ Drills, Dr. Elliott's, in 4 sizes . . . „	0	0	10
„ „ „ Dr. Mitchell's, in 6 sizes . . . „	0	1	0
„ „ „ with spring in stem, in 4 sizes	0	1	3
„ „ Reamers, Dr. Mitchell's, in 3 sizes	0	1	3
„ „ Bur, Mr. Hern's „	0	0	10
Grooving Bur „	0	1	3
Beutelrock's Nerve-Canal Drills and Cleansers for hand use „	0	1	0
Cross-Cut Root Reamers, in 3 sizes „	0	1	0
Pettee's Spring Reamers, in 3 sizes „	0	1	9
Büttner's Root Facers with trocar points, in 3 sizes . ..	0	2	3
Sharpening and Polishing Discs, Dr. McLean's, for chisels, excavators, etc., with plate, complete	0	2	4
Engine Bit Oiler, Mons. Verschueren's	0	4	6
Pliers for Operating Room, with flat tapered beaks, Nickel-plated each	0	4	3

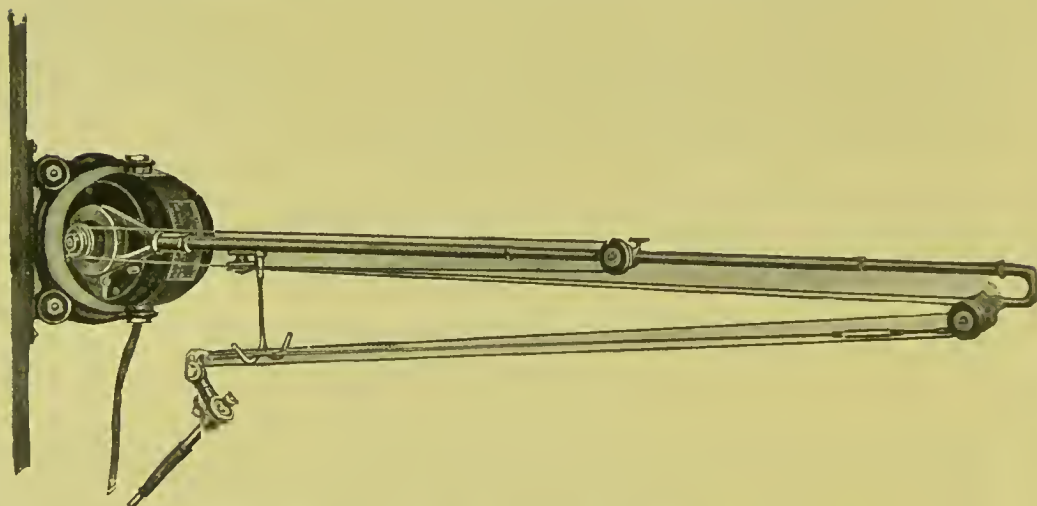
Saws, Thin Steel, for separating fillings, etc., made in	£	s.	d.
$\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$ inch diameter each	0	0	6
Nerve-Canal Pliers, for removing broken drills from root-canals, with straight or curved chops „	0	5	6
Broken Pivot Extractor, Mr. Hern's „	0	5	6
„ Drill „ „ „	0	5	6
Polishing Cups, India-Rubber, Dr. W. Vajna's, in 3 sizes per doz.	0	2	6
„ Discs „ in 10 shapes „	0	2	6
„ Points „ „ „	0	2	6
Corundum Paper Discs, in 3 sizes per box	0	0	5
Steel Shields for use with Paper Discs, in 2 sizes— $\frac{3}{4}$ and $\frac{7}{8}$ inch per doz.	0	2	0
Bright Metal Shields, in 2 sizes— $\frac{3}{4}$ and $\frac{7}{8}$ inch „	0	2	6
Automatic Paper Disc Holder, Mr. Loewenson's . . . each	0	7	6
Shellac for mounting Wheels and Points, in powder per box	0	0	6
„ „ „ „ in sticks per doz.	0	2	6
Polishing Powders—			
Carborundum, Superfine and Extra Superfine . . . per box	0	0	6
Corundum Flour „	0	0	6
Pumice, Superfine per lb.	0	0	4
Rouge per box	0	0	6
Wire Brush with hub for Engine, for cleaning Burs, etc. . .	0	3	0
Handpiece Spiral for Upright of Shaw's Engine	0	2	6
Stands for Engine Burs, with Glass Cover, containing 60 holes (No. 2)	0	5	0
„ „ Revolving, with 120 holes (No. 5)	0	12	0
Screw Drivers for Handpieces, etc., set of 5 . . . per set	0	3	0
„ „ Pocket, with 3 extra points	0	1	0

ELECTRICITY IN DENTAL PRACTICE.

The extensive increase in the number of Electric Supply Companies during the last few years, and the consequent demand for suitable apparatus to be worked by the electric current in the dental surgery and workroom, have led manufacturers of electrical appliances to study the needs of the Dentist, and to place before him a number of labour- and time-saving appliances, the use of which he will find profitable in practice.

A Special Catalogue containing a full list of the Electrical Apparatus we supply will be sent on application.

COLUMBIA ALL-CORD ENGINE.



This is the most powerful of all the Columbia Engines, and is therefore specially recommended to crown and bridge workers, and others who require maximum power.

PRICES, less 10 per cent. for cash :

For Continuous Current—

All-Cord Engine for 100 to 120 volts, without Handpiece and Wrist Attachment	£	s.	d.
Ditto, 200 to 250 volts	23	0	0
Ditto, for 6-volt Accumulators	24	4	0
	23	0	0

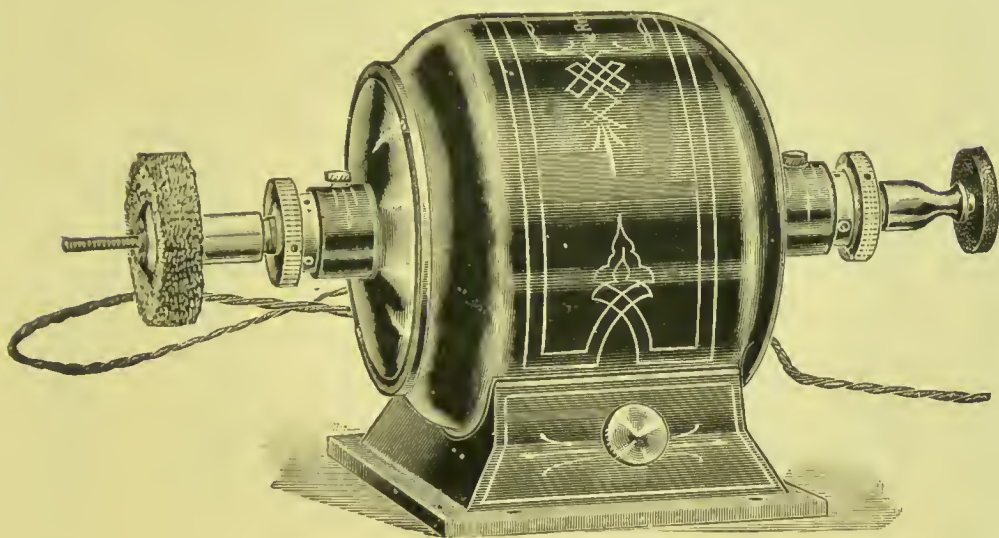
For Alternating Current—

All-Cord Engine for 100 to 120 volts, without Handpiece or Wrist Attachment	25	0	0
Ditto, 200 to 230 volts.	26	0	0
Doriot Wrist Attachment with No. 2 Slip-Joint for any of the above.	2	8	0
No. 7 Handpiece for No. 2 Slip-Joint	2	1	0

When ordering for Continuous current, state **Voltage** to be used ; for Alternating current, state **Voltage** and **Periodicity**.

COLUMBIA ELECTRIC LATHE,

FOR USE IN THE DENTAL SURGERY OR LABORATORY.
FOR CONTINUOUS CURRENT, OR 6-VOLT ACCUMULATORS.



Columbia Lathe, complete with set of eight Chucks, for 100	£	s.	d.
to 120-volt Continuous Current, or 6-volt Accumulators .	8	16	0
„ „ „ „ without Chucks	8	0	0
„ „ complete with Chucks, for 200 to 250 volts	10	0	0
„ „ „ „ without Chucks	9	4	0

A discount of 10 per cent is allowed for cash.

ELECTRIC LAMP BRACKETS AND REFLECTORS.

FIG. 1.



Fig. 1. Complete with Lamp as illustrated	£	s.	d.
„ 2. „ „ with additional arm at B	1	8.	0
Extra Aluminium Shades, with mounts	0	4	0

SCALERS.

(SET C.)



2.



3.



4.



5.



6.



7.



8.



9.



10.



11.



12.



13.



14.



15.



16.



17.

1.

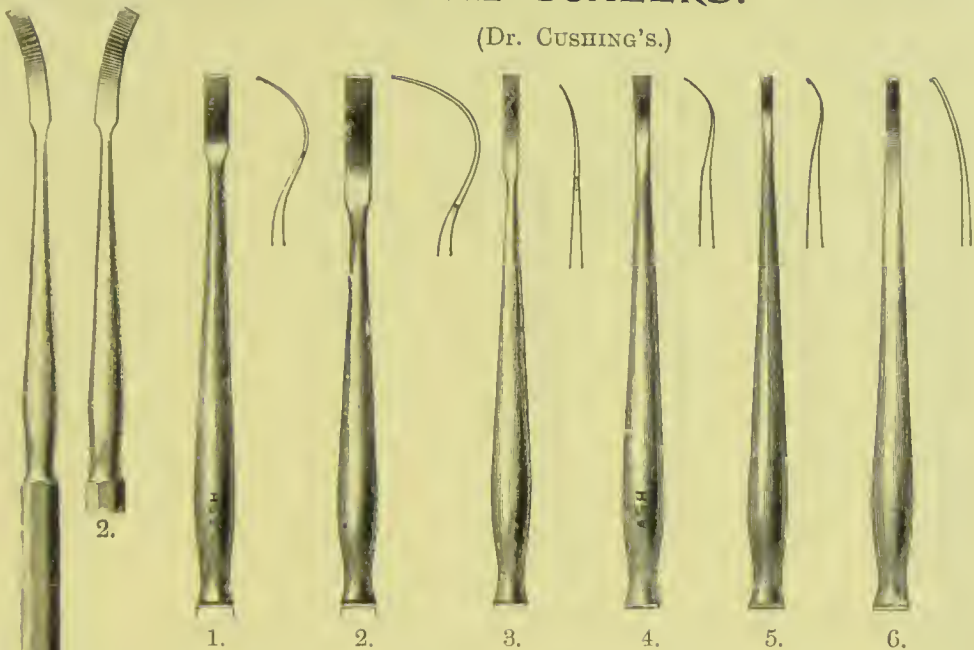
In Steel octagon handles, Nickel-plated each

s.	d.
1	6

Dr. HARLAN'S.

FINE SCALERS.

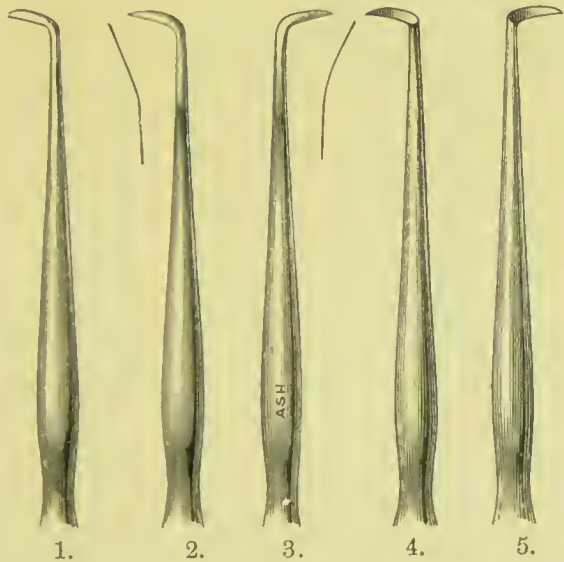
(Dr. CUSHING'S.)



Dr. Harlan's, in octagon handles, Nickel-plated	each	s. d.
Dr. Cushing's, in octagon handles, Nickel-plated, partly file-cut	(Figs. 1-6) each	1 4

FINE SCALERS.

(Dr. HOWE'S.)

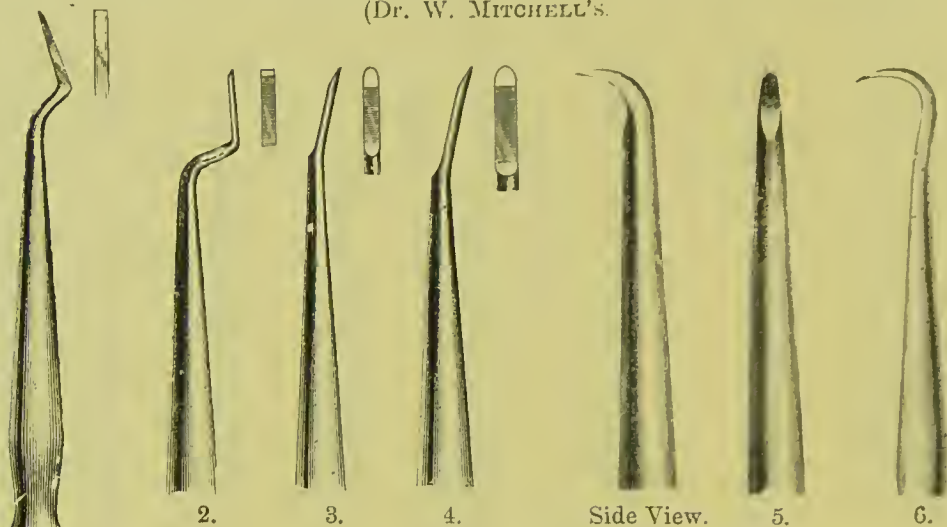


A set of five very fine Scalers, consisting of two pairs curved Right and Left and one Straight, for getting into very narrow spaces and between irregular teeth.

In octagon handles, Nickel-plated	(Figs. 1-5) each	s. d.
	K	1 0

ENAMEL CHISELS AND ROOT TRIMMERS.

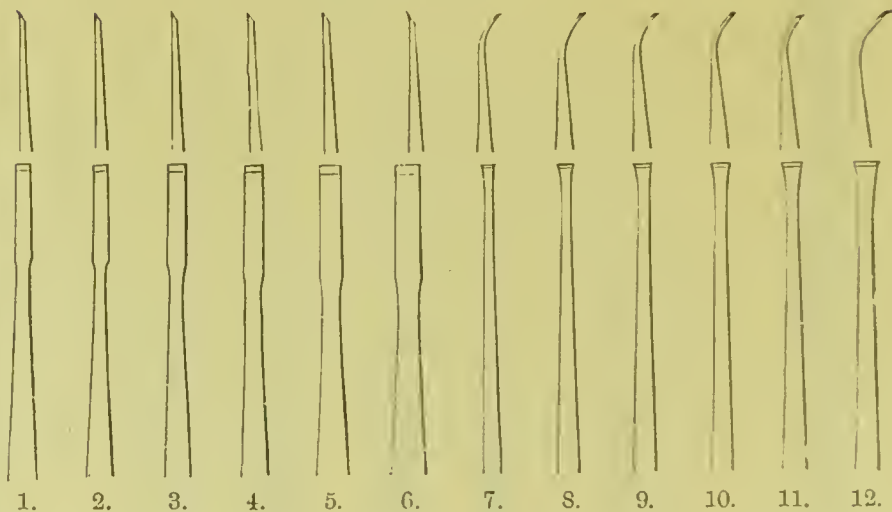
(Dr. W. MITCHELL'S.)



Enamel Chisels, in file-cut handles, Nickel-plated	s.	d.
(Figs. 1-4) each	2	0
Root Trimmers, in file-cut handles, Nickel-plated		
(Figs. 5 and 6) each	2	0

ENAMEL CUTTERS.

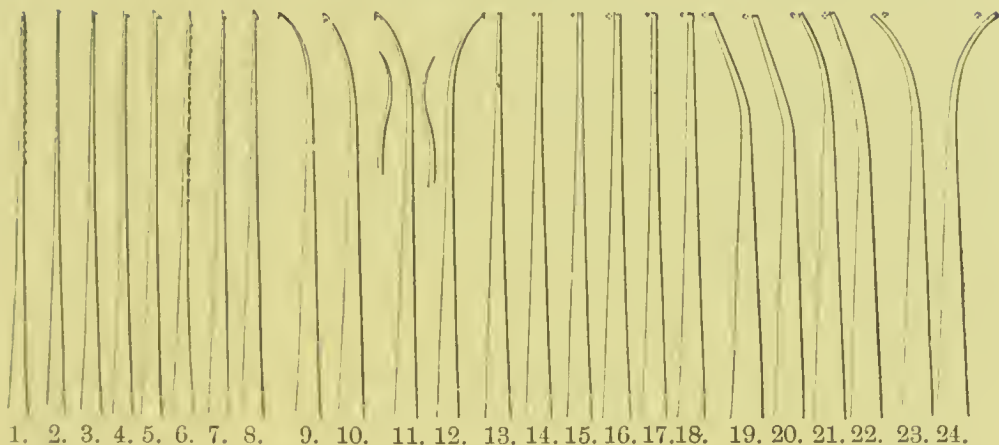
(Dr. ABBOTT'S.)



In Steel octagon handles, Nickel-plated (Figs. 1-12) each	s.	d.
1.	1	6
„ file-cut „ „ „ „ „ „ „ „ „ „ „ „	2	0

NERVE INSTRUMENTS.

(Dr. ARRINGTON'S.)



1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24.

Nerve Extractors . Figs. 1-5, soft temper.

" " " 6-12, spring "

Nerve-Canal Pluggers, 13-16, soft

17-24, spring

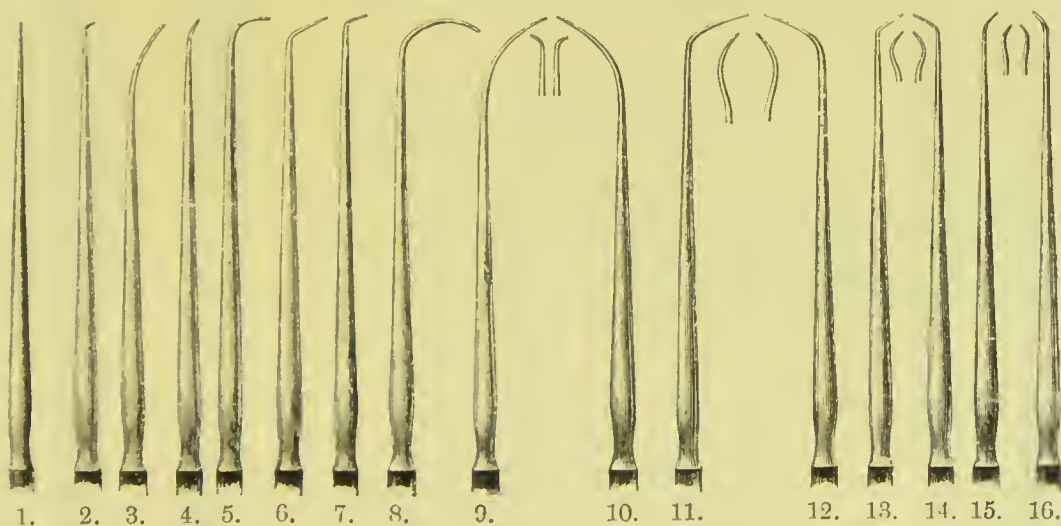
s. d.

In Steel octagon handles, Nickel-plated . . . (Figs. 1-24) each 1 0

In square Steel „ „ „ (Figs. 2, 3, 4) „ 0 9

PROBES.

WITH VERY FINE POINTS.



1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16.

In small round Nickel-plated handles with turned ends. They form a very useful set.

s. d.

| | | |
|--------------------------------|-------------------|------|
| Price, Nickel-plated | (Figs. 1-16) each | 0 10 |
|--------------------------------|-------------------|------|

K 2

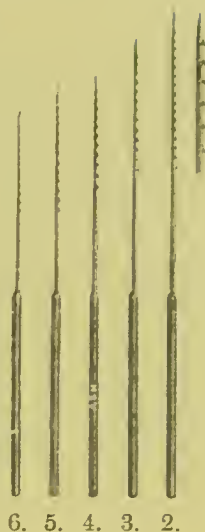
ASH'S NERVE INSTRUMENTS.

Soft temper, made up in packets containing one dozen, as under :

| | | per pkt. |
|--------------------------|-------------|----------|
| | | s. d. |
| Assorted | (Figs. 2-6) | 1 9 |
| Small size | („ 4-5) | 1 9 |
| Extra Small size | (Fig. 6) | 1 9 |

Nerve Instruments :

| | |
|--------------------------------------|-------|
| In Steel handles, made up in packets | s. d. |
| of one dozen, soft temper (Fig. 14) | 2 6 |



NERVE INSTRUMENTS.

FIG. 1.—EXTRA FINE.

As specially made for Dr. Jenkins of Dresden. Used by many eminent practitioners, who speak of them in the highest terms.

They are unequalled for quality and finish, and ever since they were first brought to the notice of the Profession there has been an increasing demand for them. Put up in packets of one dozen.

| | s. d. |
|----------------------------|-------|
| Price per packet | 2 6 |

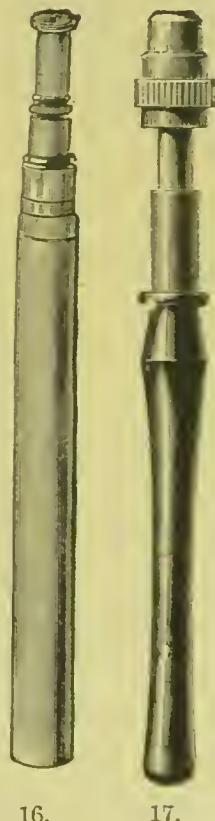
Nerve Instrument Holders :

| | s. d. |
|--------------------------------------|-------|
| In Ivory handle . . . (Fig. 15) each | 3 0 |
| „ Bone „ . . . („ 16) „ | 0 4 |
| „ Ebony „ . . . („ 17) „ | 1 6 |



14.

15.



16.

17.

PULP-CANAL CLEANSERS.

(ASH'S MAKE.)

The points of these Pulp-Canal Cleansers are reduced so as to enter the canal readily, and the barbs, which are cut of just sufficient depth to accomplish their work, are arranged spirally around the shaft, in effect forming a screw, so that no two cuts are exactly opposite each other (see enlarged view *D*). With ordinarily careful usage these Cleansers will remove the pulp-substance perfectly, without liability to be broken or to become fastened in the canal. If at any time the instrument does not withdraw readily from the root, a turn or two to the left (unscrewing) will at once release it.

C.

D.

In boxes containing half-dozen :

per box.
s. d.

| | | |
|---|---|---|
| No. 1. Assorted sizes, with long handles (Fig. <i>A</i>) | 4 | 6 |
| „ 2. All fine „ „ („ <i>A</i>) | 4 | 6 |
| „ 4. Assorted sizes, without „ „ („ <i>C</i>) | 3 | 6 |
| „ 5. All fine „ „ („ <i>C</i>) | 3 | 6 |

NERVE BRISTLES.

(ASH'S MAKE.)

In hard rubber handles, spring tempered, roughened or hooked, for removing the nerve, clearing the nerve cavity, and for introducing medicaments in the treatment of abscesses, etc.

A.

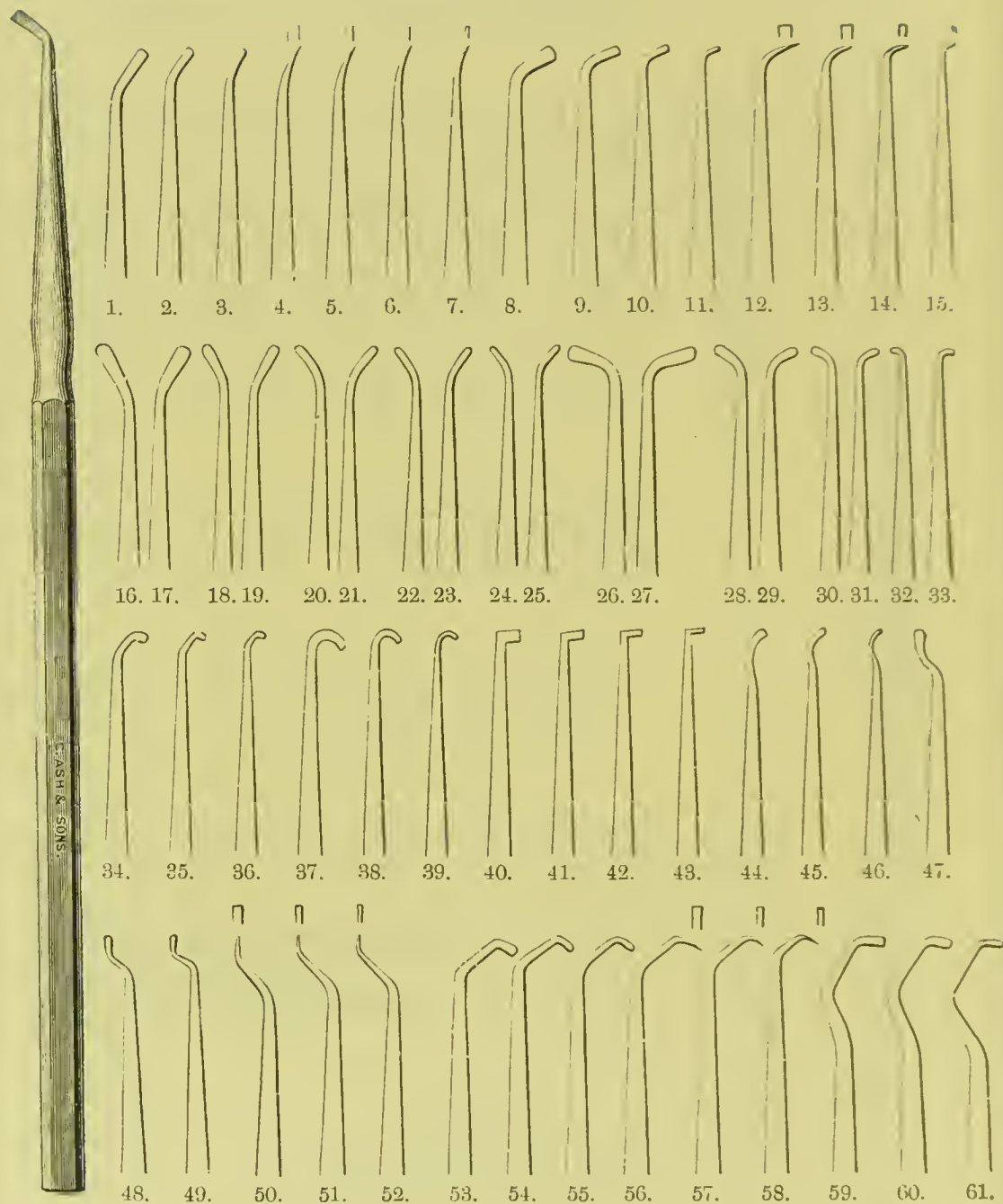
| | | |
|--|---------|-------|
| In boxes containing $\frac{1}{2}$ doz., assorted sizes . . . | per box | s. d. |
| „ „ „ all hooked . . . | „ | 3 6 |

BROACH HOLDER

WITH SCREW CLAMP.

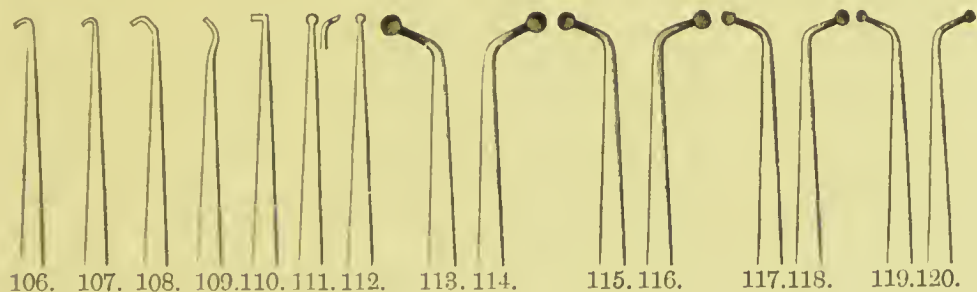
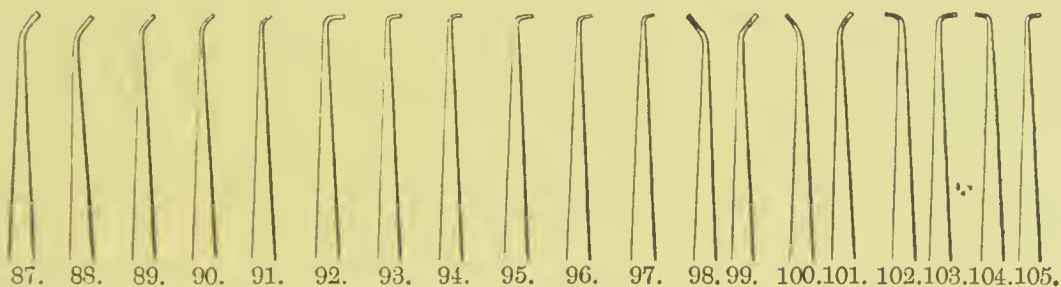
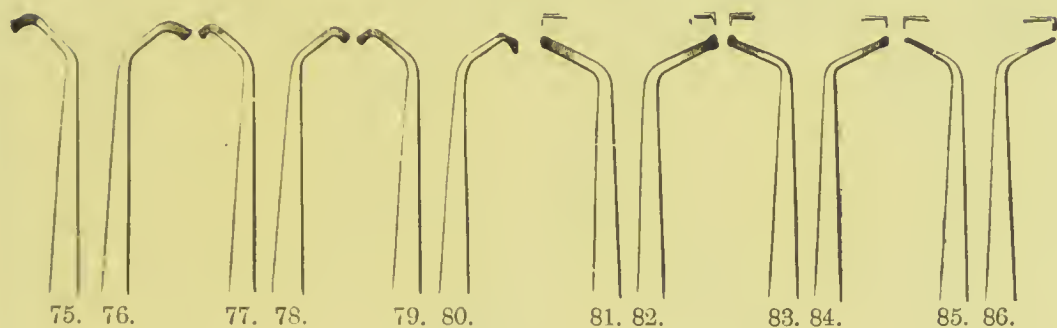
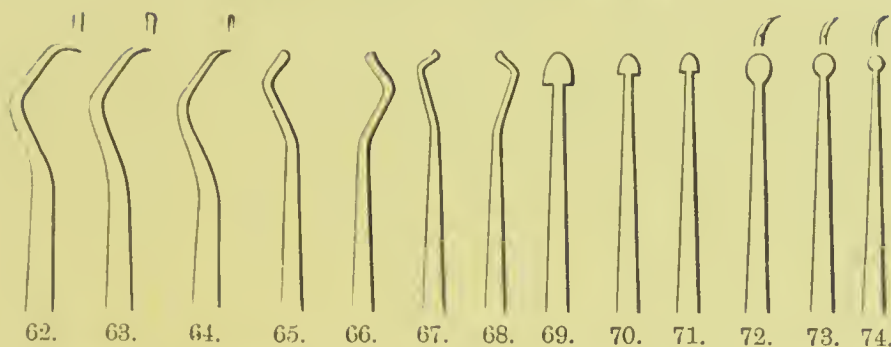
| | |
|--|-------|
| Price, in neat black Vulcanite handle. | s. d. |
| | 1 3 |

EXCAVATORS.



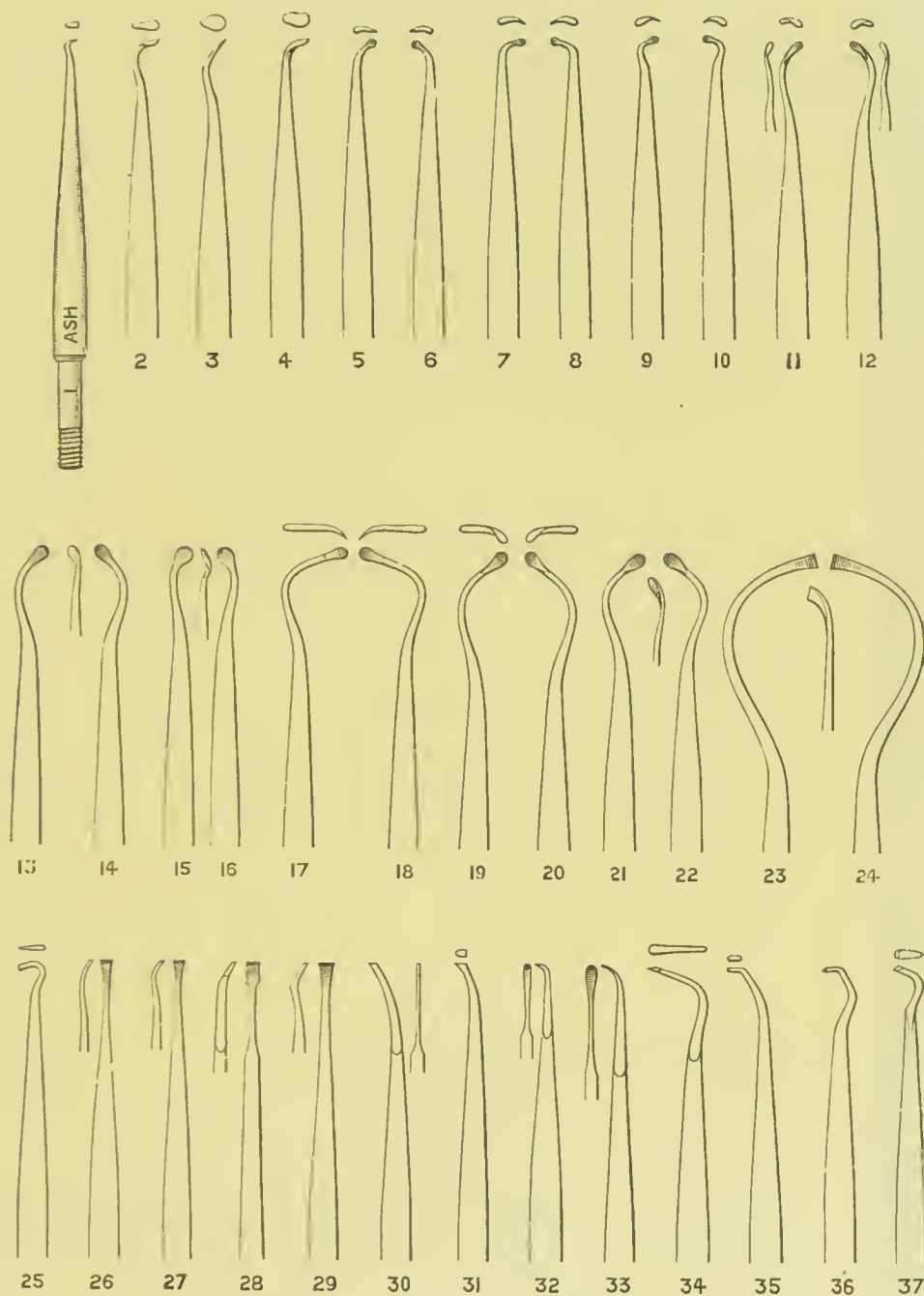
| | | | |
|--|----------------------------|----|----|
| In Steel octagon handles, blued | (Figs 1-61) each | s. | d. |
| Nickel-plated | (" " " ") | 0 | 8 |
| With screw ends, for Cone-Socket Handles | (" " " ") | 0 | 9 |
| | | 0 | 6 |

EXCAVATORS—*continued.*



| | | s. | d. |
|---|---------------------|----|----|
| In Steel octagon handles, blued | (Figs. 62-120) each | 0 | 8 |
| Nickel-plated . . („ „) .. | | 0 | 9 |
| With screw ends, for Cone-Socket Handles . („ „) .. | | 0 | 6 |

DARBY-PERRY EXCAVATORS.



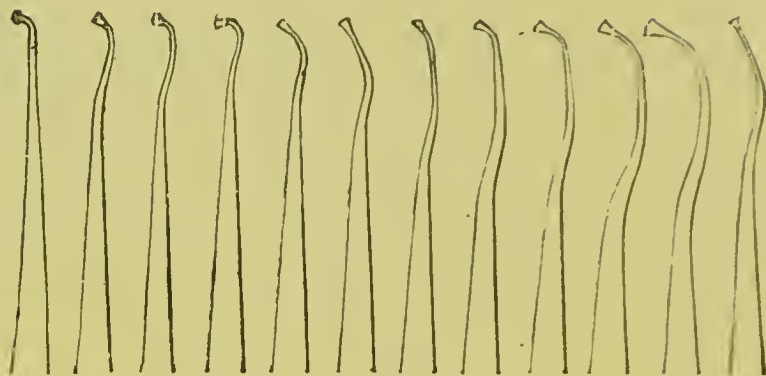
| | | |
|--|-------------------|-------|
| In Steel octagon handles, Nickel-plated . . . | (Figs. 1-37) each | s. d. |
| With screw ends, for Cone-Socket Handles . . . | („ „) „ | 1 0 |
| | | 0 8 |

BATTLE-AXE EXCAVATORS.

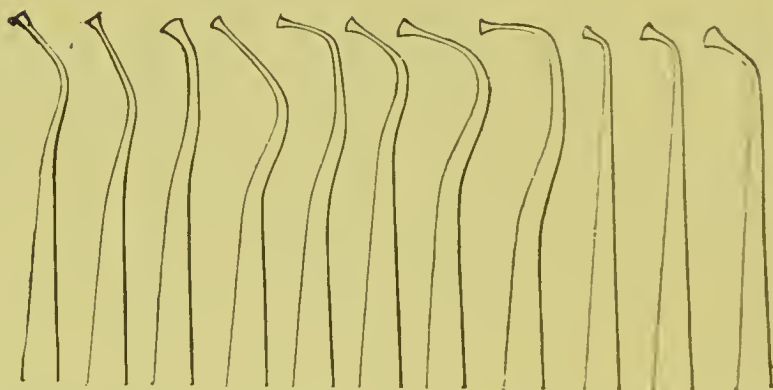
(Dr. S. G. PERRY'S.)



1.



2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13.



14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24.

In presenting these Excavators to the Profession, Dr. Perry said: The blades are made somewhat like a battle-axe in shape. One distinguishing feature about them is the great slenderness of the shank, while the round cutting-edge is intended to fit into the contour of cavities. Another advantage of the round cutting-edge is that it "bites" only in one place, and where it bites it takes hold.

The Excavators vary in size from very fine and delicate ones to larger sizes, the idea of the round face and cutting-edge being carried out in all. There are twenty-four in the set, running from the smallest to the largest size needed; the largest ones being for opening into cavities and cutting down crown surfaces, and the others for work in the interior of all cavities.

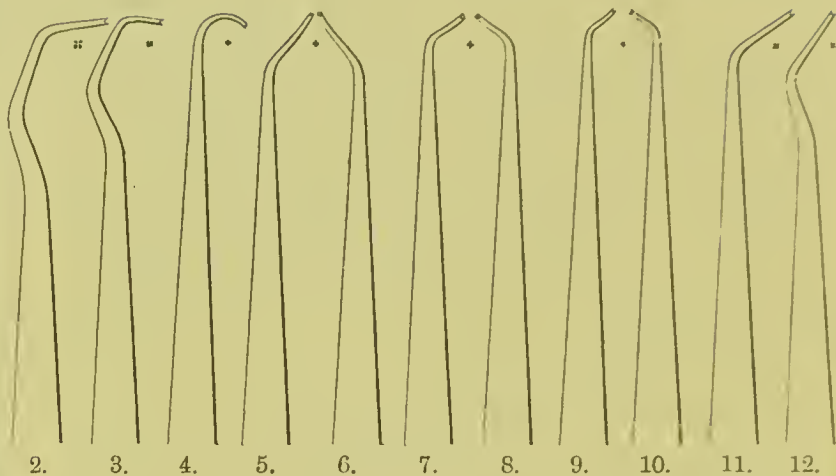
| | | | | |
|---------------------------------|--------------|------|----|----|
| | | | s. | d. |
| In Steel octagon handles, blued | (Figs. 1-24) | each | 0 | 9 |
| " " " Nickel-plated (" ") | " | " | 1 | 0 |

INSTRUMENTS, VARIOUS.

| | | |
|---|----|----|
| Scalers, Set A, in Steel octagon handles, Nickel-plated, made | s. | d. |
| in 12 shapes (Nos. 1-12) each | 1 | 6 |
| B " " " " | 1 | 6 |
| .. Mr. E. Lloyd Williams', in Ebony handles (Nos. 1-6) | 1 | 9 |
| .. Dr. Abbott's, in Steel handles, Nickel-plated | | |
| (Nos. 1-9) | 1 | 4 |
| .. Mr. W. Hern's, for Cone-Socket Handles (Nos. 1-4) | 1 | 0 |
| .. Siekle, Dr. Lord's, in Steel handles, Nickel-plated | | |
| (Nos. 1-6) | 1 | 0 |
| Enamel Cutters, Set A " (.. 1-12) | 1 | 6 |
| B " (.. ") | 1 | 6 |
| Double Angle Trimmers and Scalers, in file-cut handles, | | |
| Nickel-plated (Nos. 1 & 2) | 2 | 0 |
| Enamel Chisels, Reverse bevel " (.. ") | 2 | 0 |
| .. Cleavers, Dr. C. S. Case's, in Ebony handles | | |
| (Nos. 1 & 2) | 2 | 6 |
| .. Cutters, Dr. Arrington's, in Steel handles, Nickel- | | |
| plated (Nos. 1-18) | 1 | 6 |
| Excavators, Mr. R. H. Woodhouse's, in Wooden handles | | |
| (Nos. 1-3) | 1 | 9 |
| Sterilising Stand, Mr. H. C. Carter's, for instruments and | | |
| burs, Nickel-plated | 7 | 6 |
| Burs and Drills for Hand use, in Steel handles, Nickel-plated | 1 | 0 |
| Bur Thimble, Nickel-plated | 2 | 0 |
| Brushes, Hand, for cleaning Burs, Stoppers, etc., in brass wire | 2 | 0 |
| " " " in steel wire | 2 | 9 |
| Archimedean Drilling Instrument, in Ebony handle, with | | |
| three burs | 9 | 0 |
| Nerve-Canal Pluggers, in three sizes, for use in filling with | | |
| Gutta-Percha Nerve-Canal Points | 0 | 10 |
| Probes, in Steel octagon handles, Nickel-plated, made in nine | | |
| useful shapes (Nos. 1-9) | 0 | 9 |
| .. Dr. Weston's, Double-ended, Nickel-plated . . . | 1 | 3 |
| .. Mr. Moon's, Nickel-plated, for locating the position | | |
| of roots to be extracted | 2 | 0 |

HAND STOPPERS.

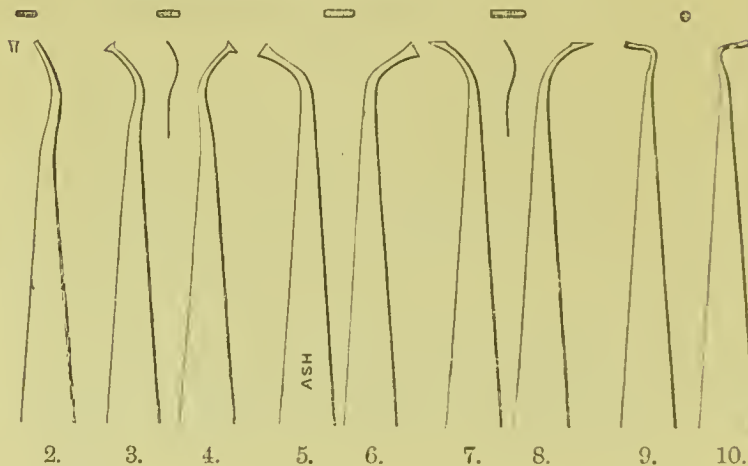
(Mr. R. H. WOODHOUSE'S.)



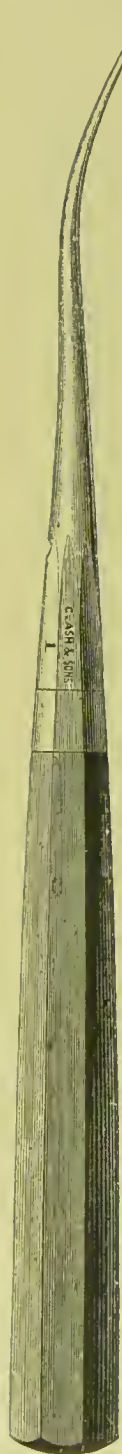
Price, in Ebony handles . . . (Figs. 1-12) each s. d.
3 0

HAND STOPPERS.

(From patterns furnished by Mr. MATHESON.)



Price, in Ebony handles . . . (Figs. 1-10) each s. d.
3 0



1.

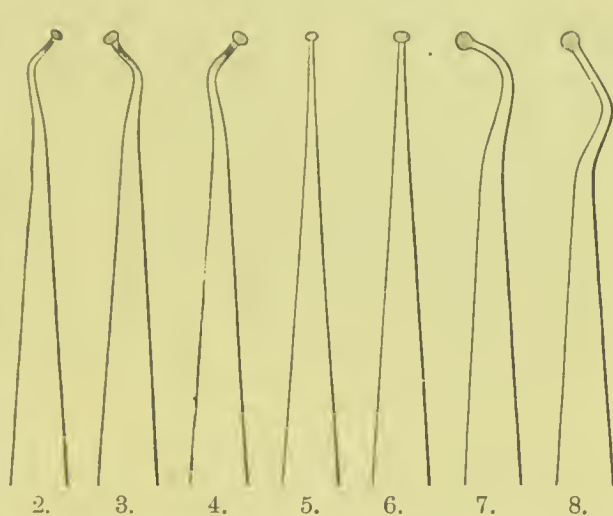


1.

HAND STOPPERS—*continued.*

FOR USE WITH COHESIVE, CRYSTAL, AND MAT GOLD.

(Mr. J. E. HUSBAND'S.)



Figs. 1-4 are right and left.

„ 5-8 are straight.

The points are serrated all over and do not
cause the gold to ball up.

| | |
|---------------------------------------|-------|
| | s. d. |
| Price, in Ebony handles . (Figs. 1-8) | 4 6 |

HAND STOPPERS.

(Mr. F. MORDAUNT'S.)

These Pluggers are most useful in the
manipulation of Ash's Fibrous Gold Blocks and
Mat Gold.

| | |
|---|-------|
| | s. d. |
| Price, in Ebony handles (Figs. 1, 2) each | 4 0 |

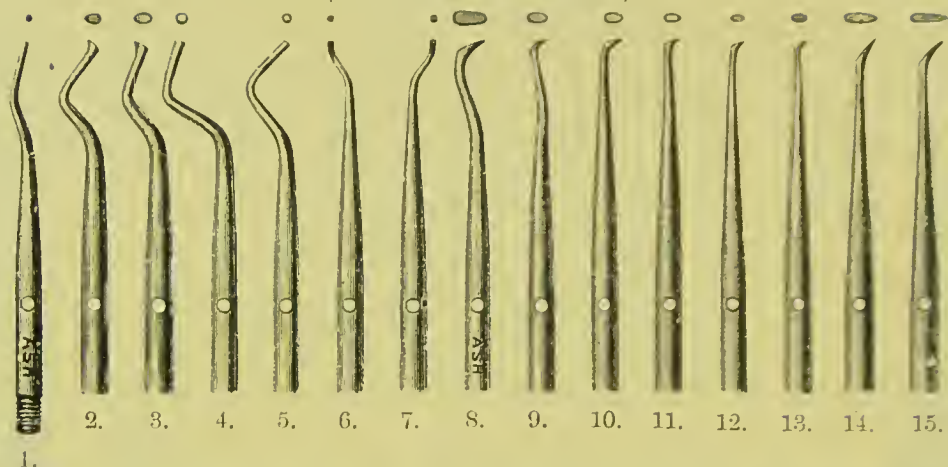


1.



1. 2.
MORDAUNT'S.

MALLET POINTS, WITH CONVEX STONED FACES. (Dr. PROSPER LADMORE'S.)

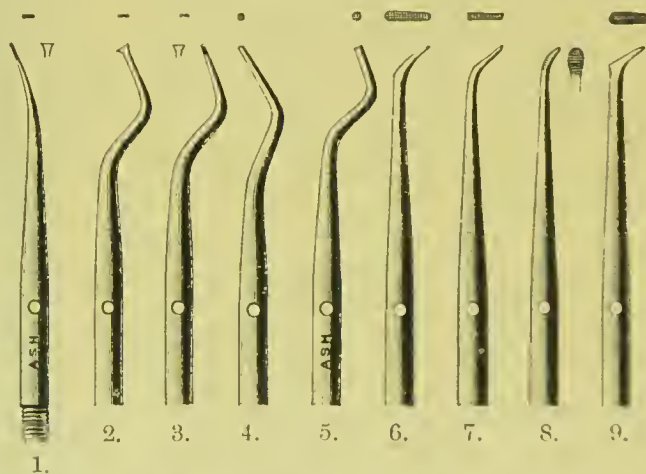


These Pluggers are very finely serrated, and carefully made to patterns approved by Dr. Prosper Ladmore, and it gives us much pleasure to state that he says of their manufacture:—

"They are perfect and without fault."

Price, with serew ends, Nickel-plated . . (Figs. 1-15) s. d.
1 6

"SPECIAL" FORMS.

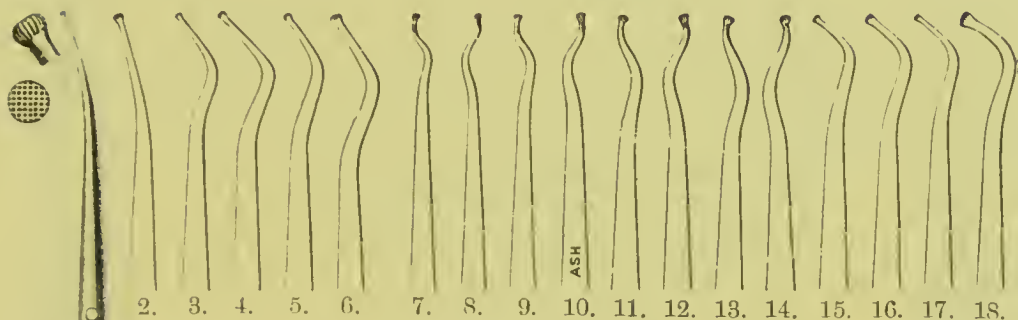


These "Special" Mallet Points have been suggested from time to time by various Operators, for whom we have made them, and, as they have met with much favour, we have decided to make them known to the Profession at large by illustrating them. Figs. 6 and 8 have convex surfaces, and all the others have flat surfaces.

Price, with serew ends, Nickel-plated . (Figs. 1-5) each s. d.
1 3
 " " " (" 6-9) " 1 6

MALLET POINTS WITH SCREW ENDS.

(Dr. E. A. ROYCE'S.)



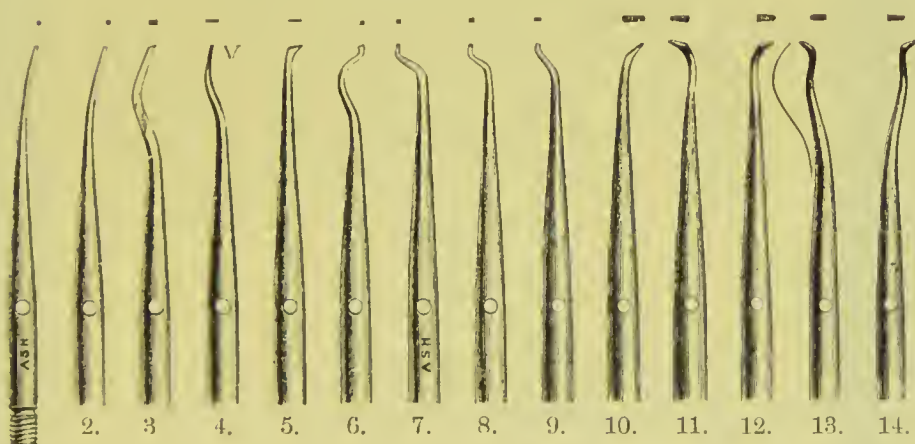
The enlarged views of the head of Fig. 1 show the general form of this useful set of 18 Mallet Points.

1.

Price, with screw ends, Nickel-plated . (Figs. 1-18) each s. d.
1 6

FOR FINE COHESIVE GOLD WORK.

(Set of 14, selected by Mr. CLAUDE ROGERS.)



1.

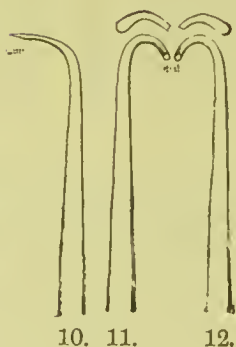
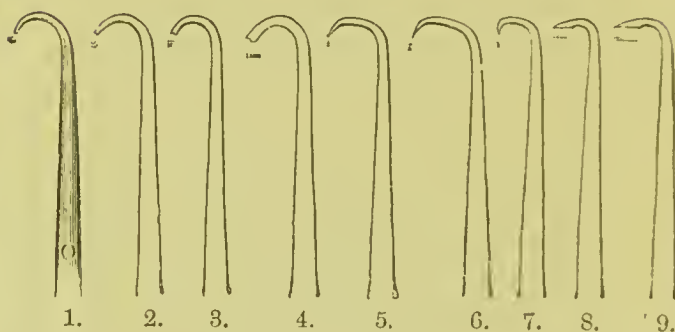
Mr. Rogers finds these instruments so useful in practice that we have obtained his permission to offer them to the Profession as a set selected by him. Several have been modified to his directions, and all of them as now illustrated meet with his approval.

They are made with highly finished stoned serrations.

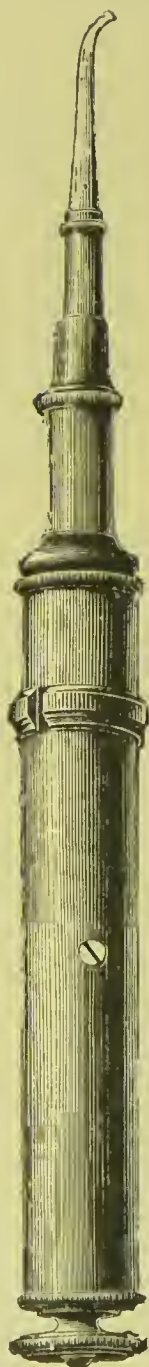
Price, with screw ends, Nickel-plated . (Figs. 1-14) each s. d.
1 3

AUTOMATIC MALLETS.

| | <i>s.</i> | <i>d.</i> |
|--|-----------|-----------|
| Snow & Lewis's | 30 | 0 |
| Abbott's | 34 | 0 |
| Leather Cases, 6½ inches by 3 inches
and 1 inch deep, to hold Mallet and
24 Points, lined with Silk Velvet, each | 8 | 0 |
| Southwick's Mallet (not illustrated) . | 21 | 0 |

**BACK-ACTION Mallet
POINTS.**

s. d.
Figs. 1-12 . each 1 3



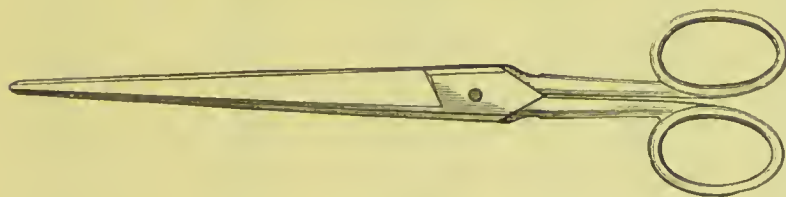
SNOW &
LEWIS'S.



INSTRUMENTS, Etc., VARIOUS.

| | | | |
|---|---|----|----|
| Hand Stoppers : | £ | s. | d. |
| Hospital Pattern (Nos. 1-12), in Ebony handles each | 0 | 3 | 0 |
| Dr. Bing's „ (Nos. 1-16) „ „ „ | 0 | 3 | 0 |
| Hand Mallet , with Nickel-plated Brass Head filled with lead . | 0 | 1 | 6 |
| Pneumatic Mallet , Mr. Claude Rogers', to take Electric Mallet | | | |
| Pluggers, with India-Rubber Tubing and Bulb, complete | 1 | 15 | 0 |
| Ditto, ditto, to take Screw Plugger Points, with India-Rubber Tubing and Bulb, complete | 1 | 10 | 0 |
| Plugger Points for Automatic Mallets and Engine Mallets— | | | |
| Snow & Lewis' and Abbott's forms (Nos. 1-72) each | 0 | 1 | 3 |
| Dr. Marshall H. Webb's forms (Nos. 1-12) . „ | 0 | 1 | 3 |
| Dr. Varney's forms (Nos. 1-13) „ | 0 | 1 | 3 |
| Mr. A. H. Farebrother's forms, set of 3 (No. 1) „ | 0 | 1 | 6 |
| „ „ „ „ (Nos. 2 & 3) „ | 0 | 1 | 3 |
| Dr. F. Thompson's forms (Nos. 1-7) . . . „ | 0 | 1 | 3 |
| Dr. J. Leon Williams' forms (Nos. 1-20) . . „ | 0 | 1 | 6 |
| Mr. E. Lloyd Williams' forms (Nos. 1-10) . „ | 0 | 1 | 3 |
| Mr. Mausbridge's forms (Nos. 1-5) . . . „ | 0 | 1 | 3 |
| Dr. Fielden Briggs' forms (Nos. 1-11) . . „ | 0 | 1 | 6 |
| Foil Manipulator , in Ebony handle „ | 0 | 3 | 0 |
| „ „ Hospital Pattern „ | 0 | 1 | 0 |
| Gold Foil Case , with pocket large enough to take a book of foil and a chamois leather pad, in leather with spring catch | 0 | 3 | 6 |
| Gold Cylinder Case , with four divisions for keeping the sizes of pellets separate | 0 | 3 | 6 |

FOIL SCISSORS.



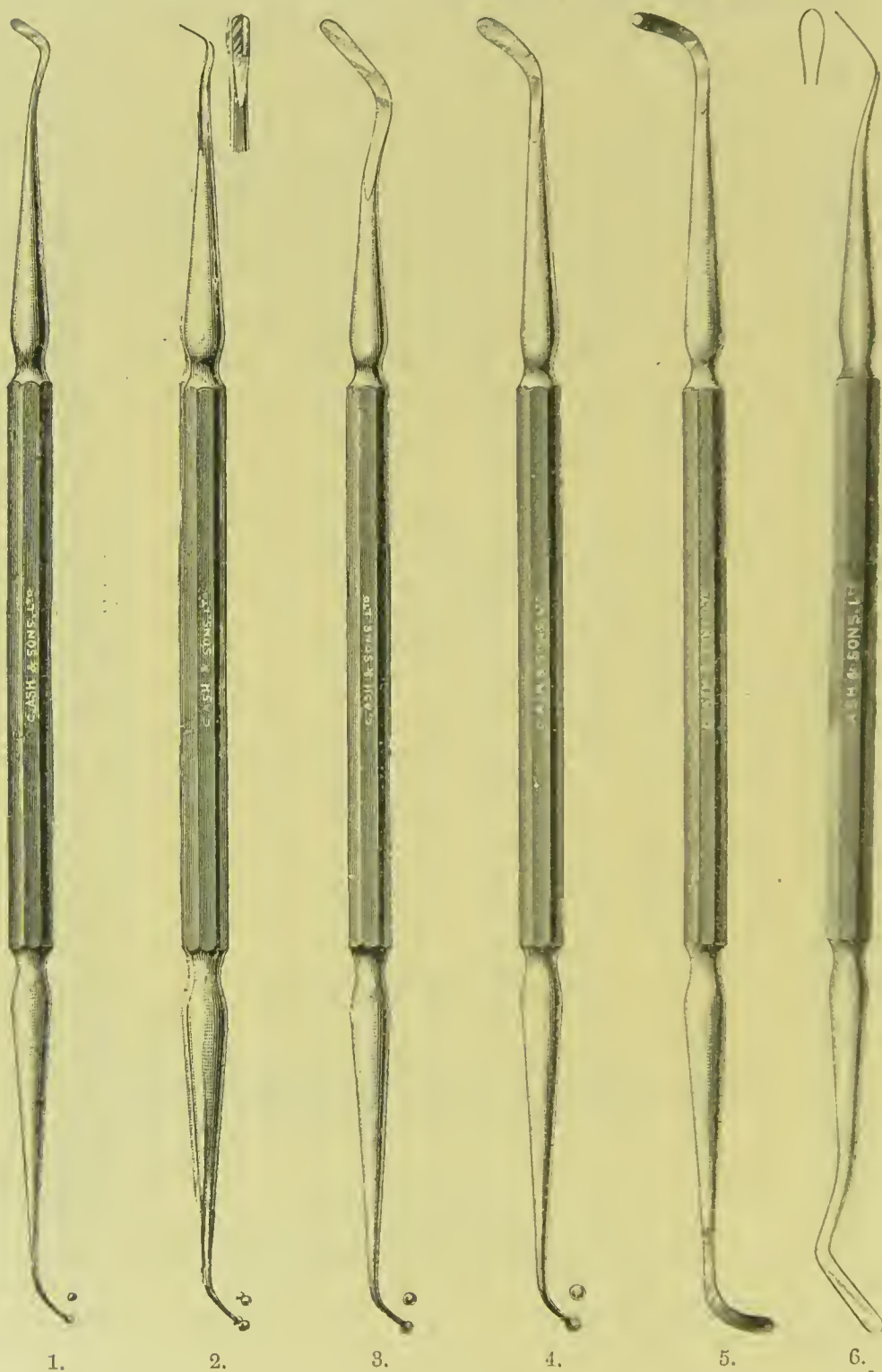
8½ inches long.

With long blades for dividing a leaf at one cut.

| | | |
|--|----|----|
| | s. | d. |
| In Steel, highly polished each | 4 | 6 |
| „ Nickel-plated „ | 6 | 0 |

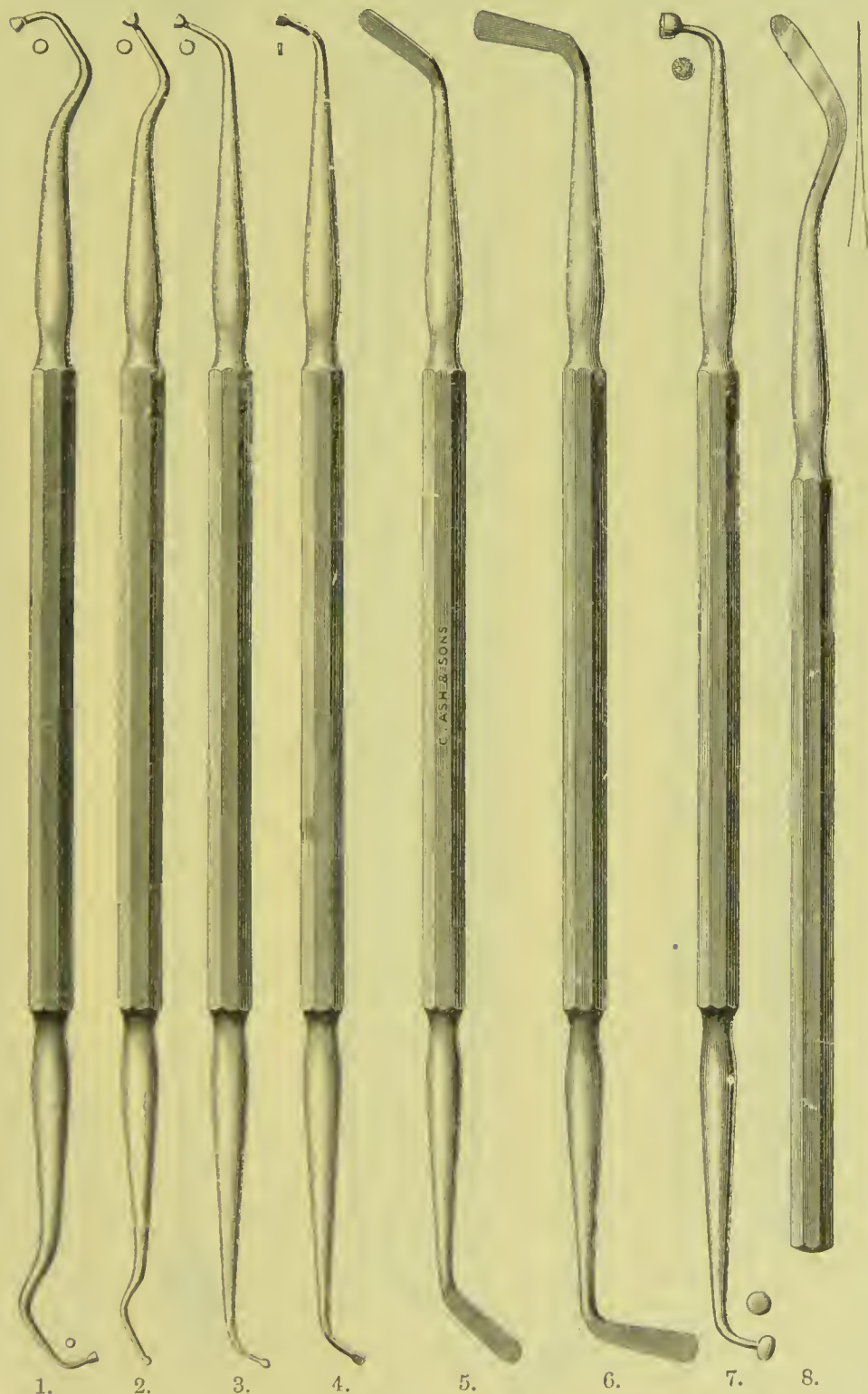
L

“SPECIAL” PLASTIC FILLING INSTRUMENTS.

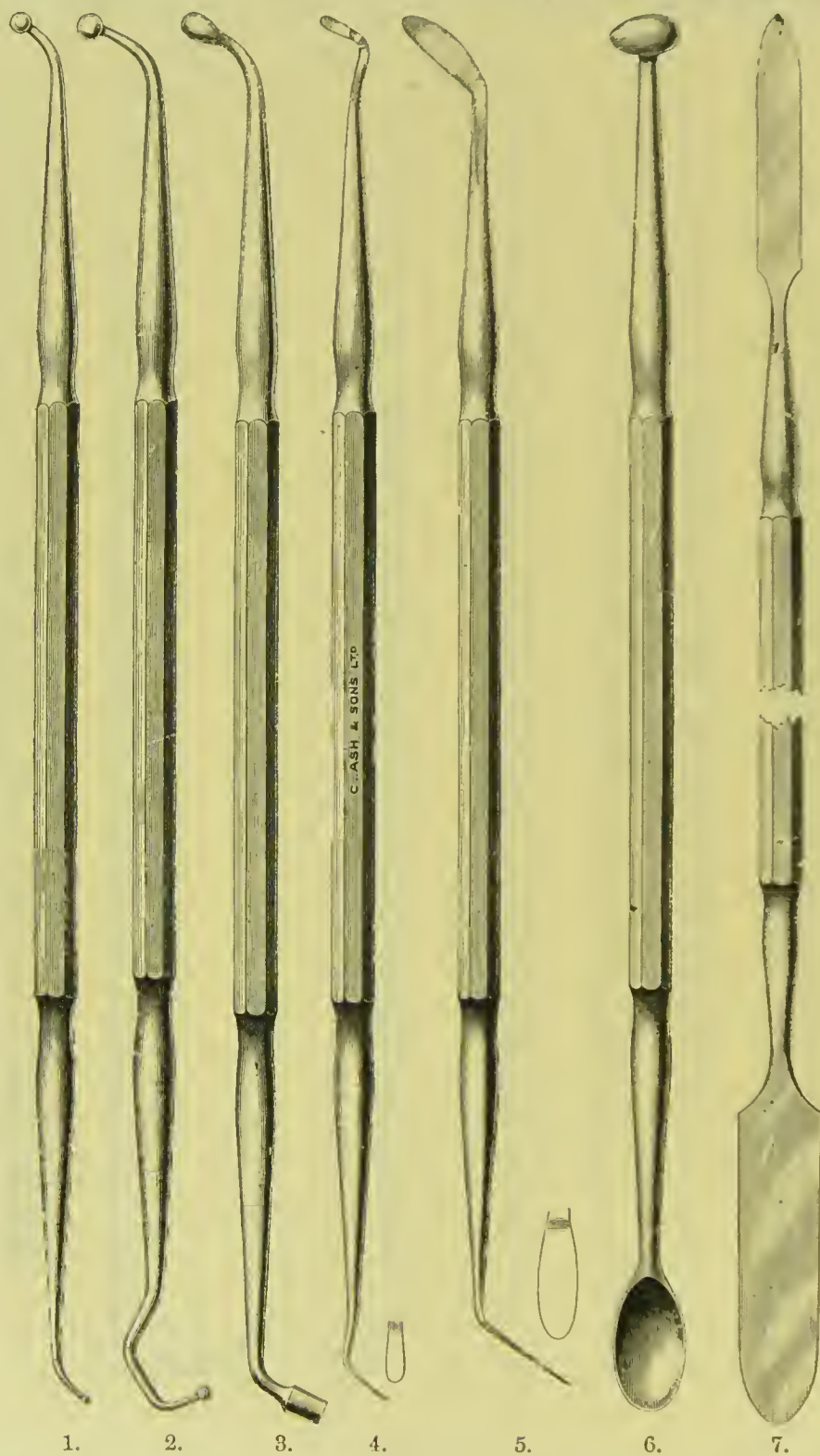


With File-cut handles, Nickel-plated (Figs. 1-6) . . . each s. d.
2 0

LADMORE'S PLASTIC FILLING INSTRUMENTS.

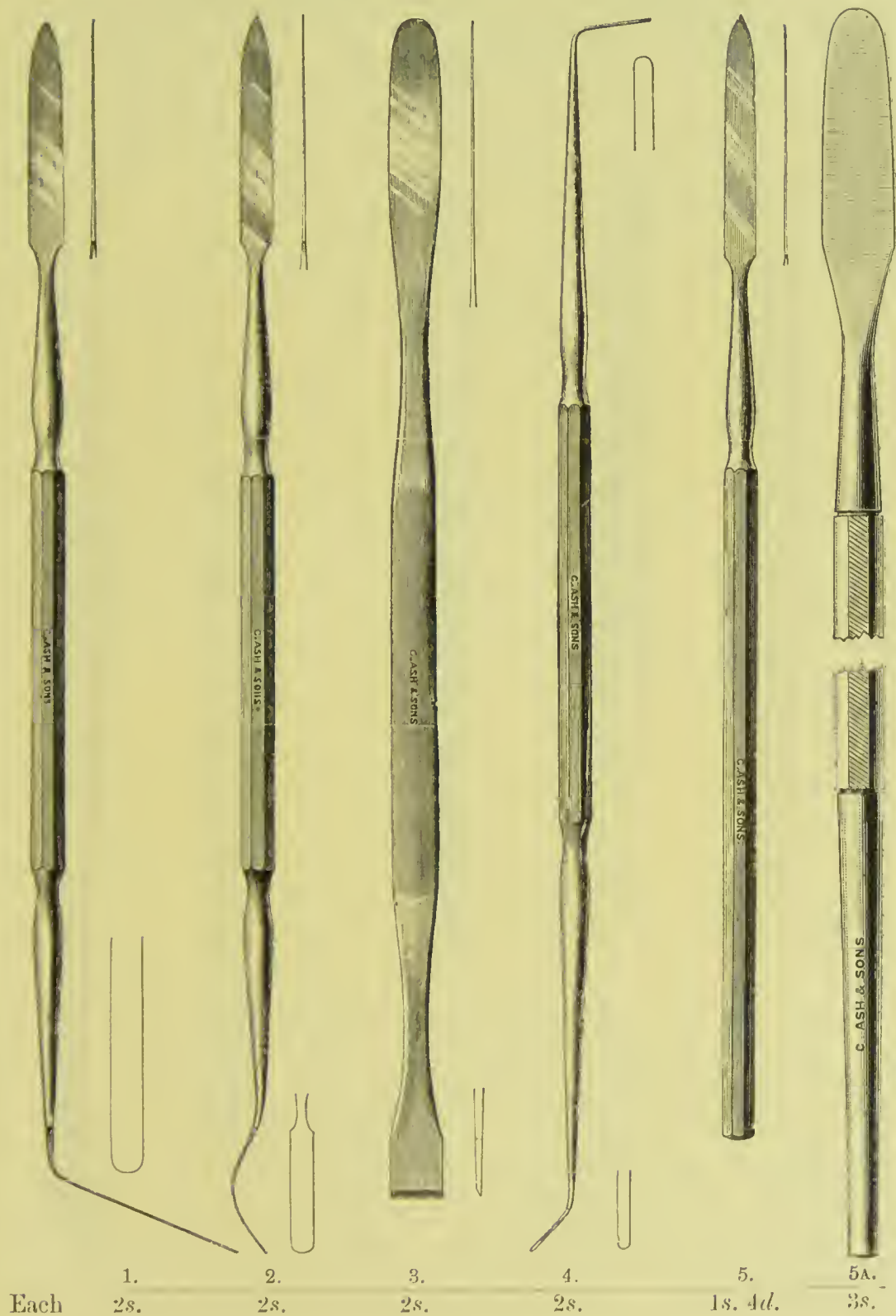


| | | | | | | |
|---|---|---|---|------|----|----|
| With File-cut handles, Nickel-plated (Figs. 1-7). | . | . | . | each | s. | d. |
| (Fig. 8) | . | . | . | " | 2 | 3 |
| | | | | 1 | 6 | |
| | | | | 1 | 2 | |

BOYD-WALLIS'S PLASTIC FILLING INSTRUMENTS.

| | s. | d. |
|--|--------|----|
| With File-cut handles, Nickel-plated (Figs. 1-5 and 7) . . . | each 2 | 3 |
| (Fig. 6) | 3 | 0 |

SPATULAS—FULL SIZE, NICKEL-PLATED.



PLUGGING, ANNEALING AND DRESSING TWEEZERS.

Rich's.

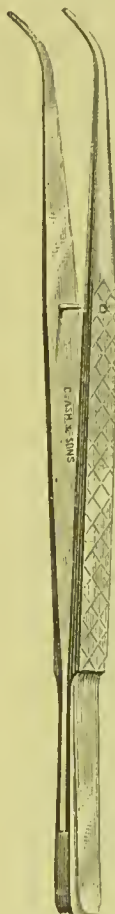
Length, $7\frac{1}{2}$ ins.

Fig. 11.



6 ins.

College.



6 ins.

Perry's.

 $5\frac{1}{2}$ ins.

Flagg's.



6 ins.

| | | | | Each. | |
|--|---|---------|---|-------|----|
| | | | | s. | d. |
| Plugging Tweezers, Rich's, Nickel-plated | | | | 7 | 6 |
| " | " | Fig. 11 | " | 7 | 6 |
| Dressing | " | College | " | 4 | 0 |
| " | " | Flagg's | " | 5 | 0 |
| Annealing | " | Perry's | " | 4 | 0 |

INSTRUMENTS, Etc., VARIOUS.

| | | |
|--|----|----|
| Amalgam Stoppers, with serrated points, in Steel handles, | s. | d. |
| Nickel-plated, made in 21 forms each | 1 | 6 |
| Amalgam Balance (Mr. Fletcher's) „ | 2 | 6 |
| „ „ (Ash's), with weights, 1, 2, 3, 4, 5, 10, | | |
| 15, 20 grains „ | 8 | 6 |
| „ Mixing Tube (Mr. Fletcher's) „ | 0 | 6 |
| Amalgam Carriers and Stoppers, Nickel-plated— | | |
| Nos. 1 and 2, in Steel handles, Nickel-plated . . . „ | 4 | 3 |
| „ 3 and 4 „ „ „ . . . „ | 5 | 0 |
| Mr. Setacei's, with silver point „ | 2 | 0 |
| Loadstone, double-ended (No. 6) „ | 3 | 3 |
| Amalgam and Gutta-percha Stoppers, double-ended (Dr. | | |
| Woodson's), in Steel handle, Nickel-plated, set of 3 . „ | 2 | 3 |
| Amalgam Squeezing Pliers, in Black handles . . . „ | 5 | 0 |
| Burnishers, in Steel handles, Nickel-plated (Nos. 1-16) . „ | 1 | 6 |
| „ double-headed, in Steel handles, Nickel-plated | | |
| (Nos. 17-21) „ | 1 | 9 |
| „ in Steel handles, Nickel-plated (Nos. 22-44) . „ | 1 | 4 |
| Plastic Filling Instruments, Nickel-plated— | | |
| Dr. Foster Flagg's, single-ended, set of 12 . . . „ | 1 | 3 |
| Egg-shaped Ball-ends, double-ended, set of 2 . . . „ | 2 | 3 |
| Dr. Vajna's Quadruplex, double-headed, set of 7 . . „ | 4 | 0 |
| Dr. J. L. Williams' Dirigo, double-ended, set of 6 . . „ | 2 | 6 |
| Spatulas, Nickel-plated— | | |
| Dr. Witzel's, single-ended (Nos. 6 and 7) . . . „ | 1 | 4 |
| Mr. Fletcher's, double-ended (No. 11) „ | 3 | 0 |
| Mr. Rowney's, double-ended (like Fig. 2, page 148), | | |
| in Ivory handle (No. 12) „ | 3 | 3 |
| Mr. Rowney's, double-ended (like Fig. 4, page 148), | | |
| in Ivory handle (No. 13) „ | 3 | 3 |
| Tweezers, Dressing, Dr. Witzel's, Nickel-plated (Nos. 1-4) „ | 7 | 6 |

HAMPEL'S AMALGAM CARRIER.

This is a most useful instrument for carrying Amalgam to and discharging it in the cavity.

To take up the Amalgam it is only necessary to press the tubular end of the Carrier into it a few times until the tube is filled.

The Amalgam is discharged by taking part *B* between the first and second fingers and pressing with the thumb on the end *A*.

By means of the long bent nozzle, the Operator is enabled to reach with comparative ease cavities difficult of access without obstructing his view of them.

Price, Nickel-plated s. d.
4 6



FULL SIZE.

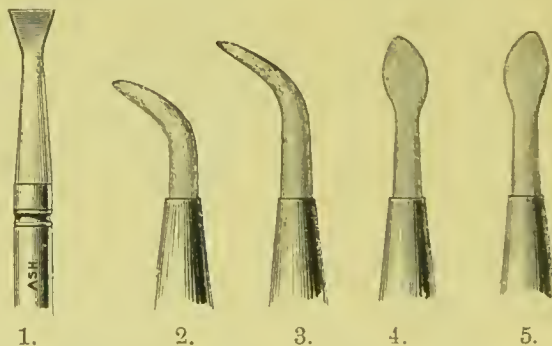
AMALGAM SPOONS, FOR HEATING COPPER AMALGAMS.



6 $\frac{3}{4}$ inches long.

| | s. | d. |
|--|----|----|
| In Wooden handle, as illustrated . . . | 2 | 9 |
| In Steel handle, with round bowl . . . | 1 | 9 |
| Mr. Claude Rogers', with sliding cover . | 3 | 9 |
| Dr. Mullett's Amalgam Director . . . | 3 | 3 |

AGATE BURNISHERS.



For polishing stoppings. The set consists of five forms—Figs. 1-5—carefully selected, and designed to meet all requirements. They are made with Ebony handles.

Price (Figs. 1-5) each s. d.
2 9

PLUG AND OSTEO TRIMMERS.



1.



2.

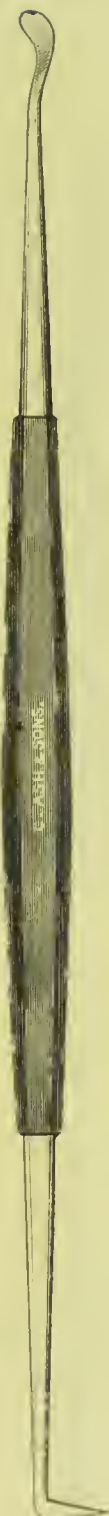


10.

11.



CLARENCE'S
TRIMMER.



OSTEO
TRIMMER.

Plug Trimmers, Mr. H. Baldwin's, will
cut either by pushing or pulling, in *s. d.*
Ebony handles (Figs. 1 and 2) each 2 3

Figs. 10 & 11, Serrated and Stoned :—

Fig. 10, Oval, cut on one side only, in
round Ebony handle . . . each 1 6

Fig. 11, Round, cut on both sides—push
and pull—in round Ebony handle each 2 0

Osteo Trimmer, Dr. W. Mitchell's: a
most useful instrument . . . 3 0

Mr. Clarence's Trimmer for cervical margins,
etc., in Steel handle, Nickel-plated . 1 3

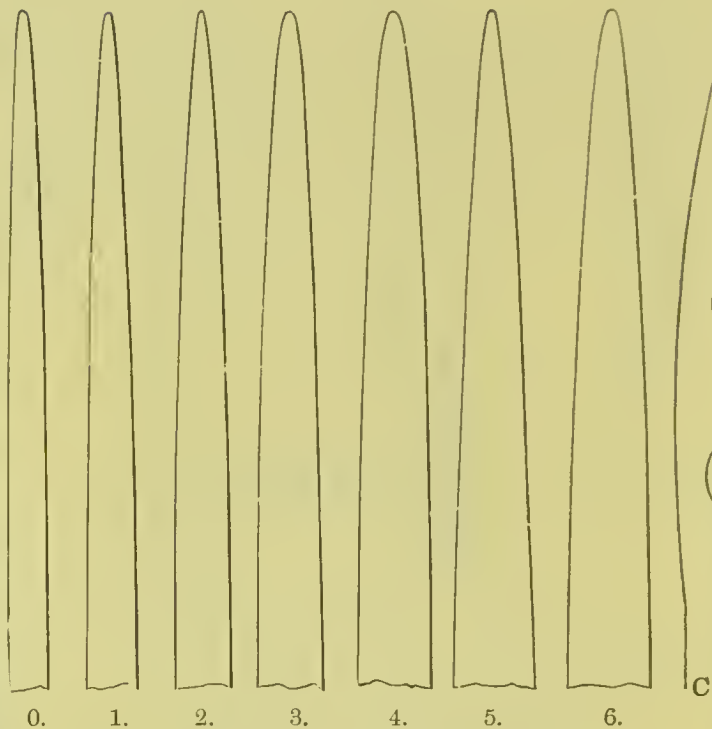
Gold Rifflers for finishing stoppings, double-
ended, in 33 useful shapes (Nos. 1-33)
each 0 7½

STUMP FILES.

(STUBS'.)



Pointed.



A, section of half-round File.

B, section of oval ,,

C, bend of curved ,,

The Half-round are made in sizes 1 to 6.

| | per doz. | | each. | |
|--|----------|----|-------|----|
| | s. | d. | s. | d. |
| Straight or Curved, Pointed | 6 | 0 | 0 | 6½ |
| „ „ Blunt | 6 | 0 | 0 | 6½ |
| „ doubled-ended, one end pointed,
the other blunt | 7 | 6 | 0 | 8 |

The Oval are made in sizes 0 to 3.

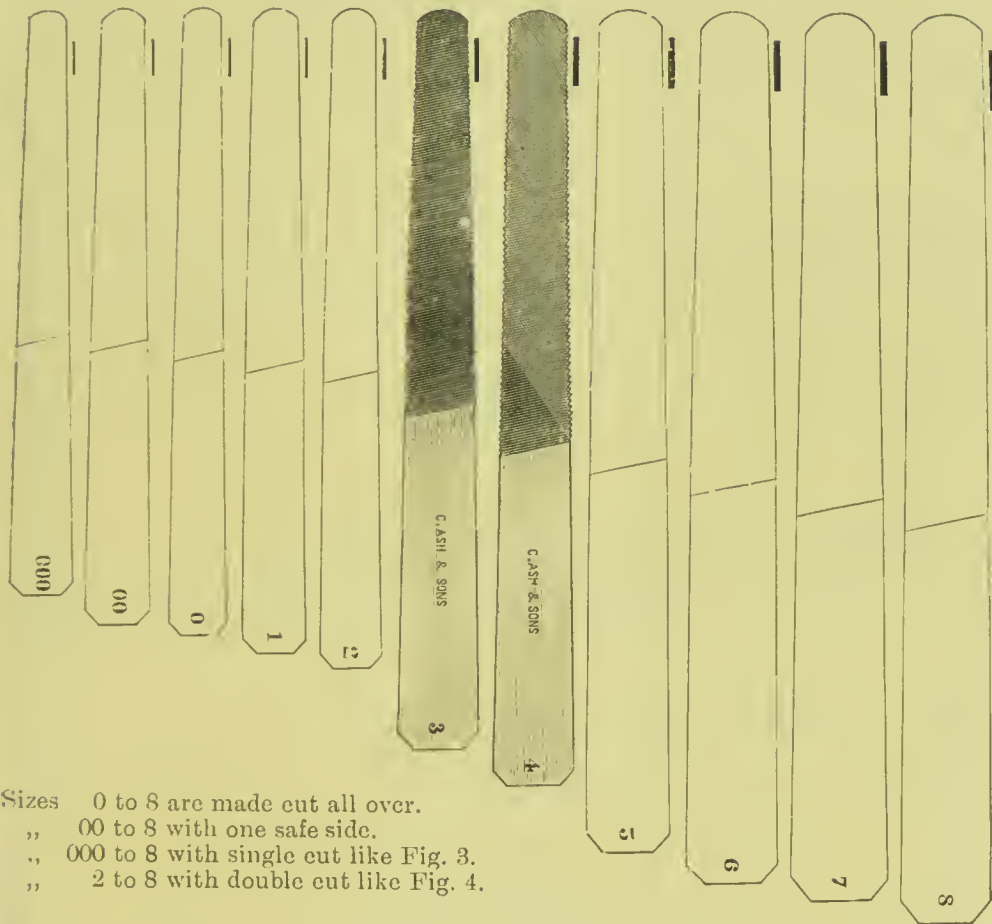
| | per doz. | | each. | |
|---|----------|----|-------|----|
| | s. | d. | s. | d. |
| Straight or Curved, Pointed | 6 | 0 | 0 | 6½ |
| „ „ Blunt | 6 | 6 | 0 | 6½ |
| „ double-ended, one end pointed, the
other blunt | 7 | 6 | 0 | 8 |



Blunt.

DIVIDING FILES.

(STUBS'.)



Sizes 0 to 8 are made cut all over.
 „ 00 to 8 with one safe side.
 „ 000 to 8 with single cut like Fig. 3.
 „ 2 to 8 with double cut like Fig. 4.

When ordering, please state which kind is required.

| | | |
|-----------------------------------|----------|-------|
| Price, any size or kind | per doz. | s. d. |
| | | 3 3 |

FILE CARRIER.

(Dr. COGSWELL'S.)



With screw clamp, for holding pieces of files.

By means of the slots in the heads of the Carrier the files can be fixed at various angles.

| | | |
|--|--|-------|
| Price, in Ebony handle, as illustrated | | s. d. |
| | | 6 6 |

TRANSPARENT CELLULOID PULP CAPS.

(Suggested by Dr. W. MITCHELL.)



1. 2. 3. 4.

Owing to their transparency the operator can see where he is putting a cap. The material is non-conducting. A cap can be conveyed to the cavity by means of the instrument here shown, which is charged on the end with carrying cement. The cement will hold the cap securely while conveying it to the cavity, and yet leave it readily when the cap is in position.

| | | | |
|---|-------|---------|--------------|
| Price, assorted, in boxes of 100 | . . . | per box | s. d.
1 0 |
| Red, Blue, and Pink Celluloid Pulp Caps, in | | | |
| boxes of 100 assorted colours and sizes | | per box | 1 0 |

Ash's Pulp Cap Carrier.

| | | |
|------------------------------------|-----------|--------------|
| Price, with extra supply of cement | | s. d.
1 3 |
|------------------------------------|-----------|--------------|

Platinum Cavity Caps (Dr. Witzel's). Made in 16 assorted sizes.

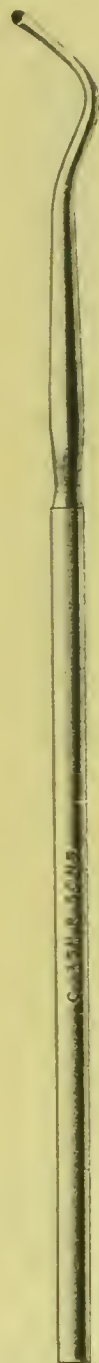
| | | | |
|------------------------------|-------|---------------|--------------|
| Price, in Platinum, assorted | . . . | per box of 25 | s. d.
2 0 |
|------------------------------|-------|---------------|--------------|

Steel Cavity Caps (Mr. Shefford's). Made in 16 assorted sizes.

| | | | |
|---------------------------------------|-----------|----------------------------|--------------|
| Price | | box containing 25 assorted | s. d.
1 0 |
| Magnetised Carrier for conveying them | | | 2 0 |

Telephone Plate for Capping pulps and for Matrices. Supplied in sheets for cutting up as required.

| | | | | |
|-------|-----------|-------------------------|--------------|----------------------|
| Price | | per sheet 5 × 4½ inches | s. d.
0 4 | PULP CAP
CARRIER. |
|-------|-----------|-------------------------|--------------|----------------------|



POLISHING STRIPS.

Metal Polishing Strips. These Strips are used with pumice or other suitable powders for finishing fillings and are thin enough to go readily between teeth. They can be smoothed out after being used by drawing between a towel or over the edge of a table. Put up in boxes of one dozen, assorted in six widths.

| | | |
|-----------------|---------|---------------|
| Price | per box | s. d.
0 10 |
|-----------------|---------|---------------|

Carborundum Cloth Strips. Made in Coarse, Medium-Coarse, Medium, and Fine Grits, put up in boxes of one gross.

| | | |
|---------------------------|---------|--------------|
| Price, any grit | per box | s. d.
2 0 |
|---------------------------|---------|--------------|

Celluloid Strips. Put up in boxes of one dozen, assorted grits.

| | | |
|-----------------|---------|---------------|
| Price | per box | s. d.
0 10 |
|-----------------|---------|---------------|

Dental Cloth Strips (Dr. C. T. Howard's), very thin, made in Coarse, Medium-Coarse, Medium, and Fine Grits, put up in Broad, Medium, Narrow, or Assorted Widths, in boxes of one gross.

| | | |
|---------------------------------------|---------|--------------|
| Price, any grit or assorted | per box | s. d.
2 1 |
|---------------------------------------|---------|--------------|

Emery Cloth Strips. Supplied in boxes of one gross in the following grits :—

A.—Very Fine.

B.—Fine.

C.—Medium.

D.—Coarse.

And Assorted.

| | | |
|---------------------------------------|---------|--------------|
| Price, any grit or assorted | per box | s. d.
1 1 |
|---------------------------------------|---------|--------------|

| | | |
|--|---------|---------------|
| French Emery Paper Strips. In boxes of one gross,
assorted widths | per box | s. d.
0 10 |
|--|---------|---------------|

Lava Cloth Strips. Put up in boxes containing 100 Coarse or Fine.

| | | |
|------------------------------|---------|---------------|
| Price, either grit | per box | s. d.
0 10 |
|------------------------------|---------|---------------|

Perfection Cloth Strips. Supplied in the following varieties : Emery, Garnet, Lava, Flint, French Emery, Pumice, and Rouge. Put up in boxes of one gross, in any of the above kinds or assorted.

| | | |
|-----------------|---------|--------------|
| Price | per box | s. d.
1 3 |
|-----------------|---------|--------------|

CONE-SOCKET HANDLES.

In Metal,
Nickel-plated.

In Vulcanite,
adapted to take Cone-Socket Instruments and
Screw Pluggers.



Figs. 1, 2, and 3 are for Excavators, Chisels, etc.

Fig. 5 is for Screw Pluggers.

Figs. 10-13 will take both styles.

VELVET RUBBER-DAM.



Size of Tin Cylinder: 7 $\frac{3}{4}$ inches long.

IN TWO THICKNESSES—MEDIUM AND THIN.

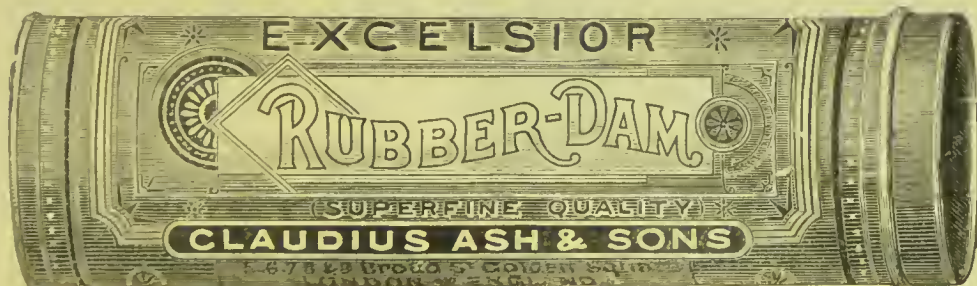
It is made of pure Para rubber of the highest grade, with the greatest care and in the best manner. We can most strongly recommend it.

| | | | | | | s. | d. |
|---------|-----------------------|-------------------|---|---|---------|----|----|
| Medium, | in lengths of 15 feet | by 6 inches wide | . | . | per tin | 7 | 6 |
| " | " | 7 $\frac{1}{2}$ " | " | " | " | 3 | 9 |
| Thin | " | 15 " | " | " | " | 5 | 6 |

EXCELSIOR RUBBER-DAM.

SUPERFINE QUALITY—MEDIUM THICKNESS.

Made from the purest Para rubber. Keeps good a long time; is strong and tough, and can be stretched to a great extent without tearing.



| | | | | | | s. | d. |
|----------------------------|--------------------|---|---|---------|---|----|----|
| Fifteen feet long | by six inches wide | . | . | per tin | 7 | 6 | |
| Seven and a half feet long | by six inches wide | . | . | " | 3 | 9 | |

GLOBE COFFER-DAM RUBBER.

(Introduced by Mr. H. T. KIRBY.)

Of superior quality, not readily affected by climate. It is of a pale red colour, and adds to the light in the mouth.

| | | | | | | s. | d. |
|-----------------------|-------------------|---|---|---------|---|----|----|
| In lengths of 15 feet | by 6 inches wide | . | . | per box | 7 | 6 | |
| " | 7 $\frac{1}{2}$ " | " | " | " | 3 | 9 | |

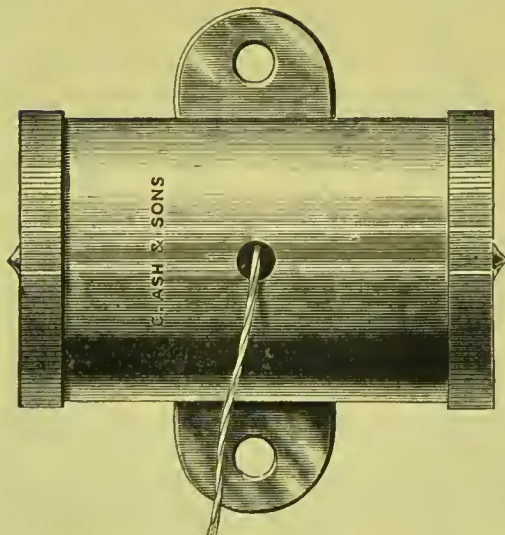
FLOSS SILK FOR LIGATURES, ETC.

PLAIN.

| | Per doz. | |
|---|----------|----|
| Ash's Plain, 12 yards on reel | s. | d. |
| „ Waxed, 12 yards on reel | 3 | 0 |
| „ Waxed, Extra Stout 12 yards on reel | 4 | 3 |
| Silk Twist . . . per reel | 7 | 0 |
| Floss Silk, Fine, Medium, and Coarse per reel | 0 | 9 |
| Best English Gilling Thread . . . per reel | 0 | 4 |
| | 0 | 5 |



WAXED.

SILK HOLDER.

FULL SIZE.

For attaching to the bracket table, or wall, or any available place within easy reach of the Operator.

It will hold a reel of our plain or waxed floss silk, and can be charged or re-charged in a few moments.

To charge, unscrew the ends, slip the reel on the spindle inside the holder, and pass the end of the silk through the hole shown in the illustration.

Price, Nickel-plated, with cutter on end s. d.
3 6

RUBBER-DAM APPLIERS.

(Mr. MARCUS DAVIS'S.)



6 $\frac{3}{4}$ INCHES LONG.

Price, in File-cut handle, Nickel-plated each s. d.
3 9

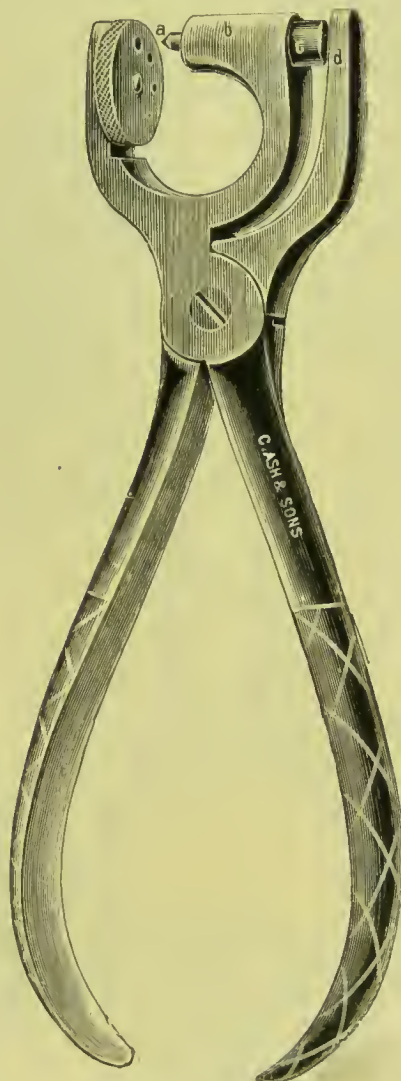
RUBBER-DAM PUNCHES.

AINSWORTH'S.

IMPROVED FORM.



6½ inches long.



5¾ inches long.

Rubber-dam Punch, Dr. Ainsworth's, with circular plate containing five holes of different sizes.

| | s. | d. |
|-----------------------------------|----|----|
| In Steel, Nickel-plated | 12 | 6 |

Rubber-dam Punch, Improved Form, with circular plate containing four holes of different sizes.

The punching pin *a* slides in socket *b* in a straight line when pressure is applied, and thus cuts equally all round the edge of the holes. There is a small spring on the pin, inside the socket, which opens the handles when the pressure is released.

The rubber-dam can be laid in the space beneath the plate and pin without danger of being caught and torn in the joint of the handles.

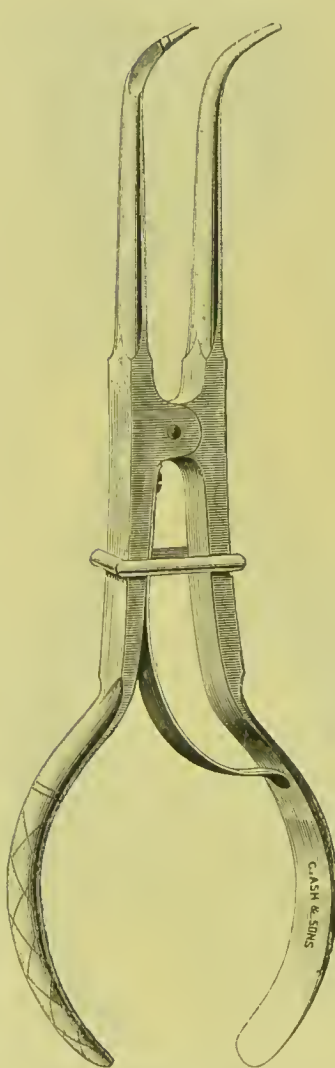
| | s. | d. |
|-----------------|----|----|
| Price | 15 | 0 |

M

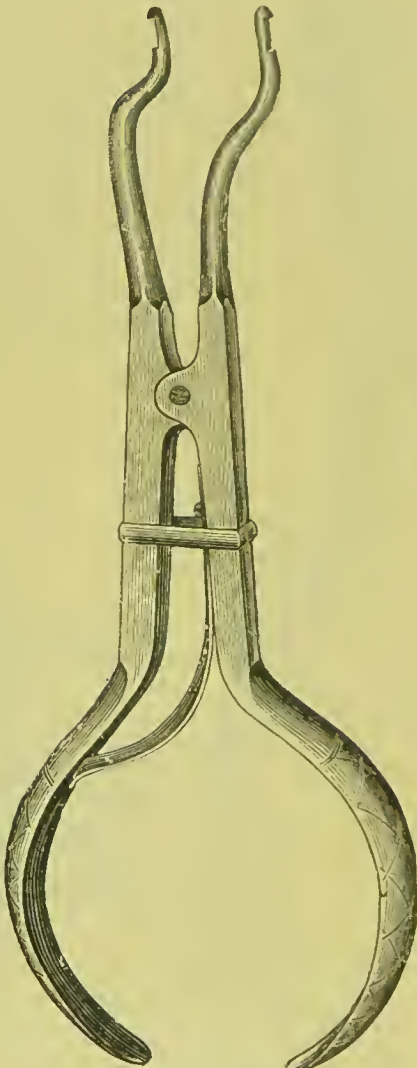
RUBBER-DAM CLAMP FORCEPS.

STOKES'.

BAYONET.



7 inches long.



7 inches long.



| | | s. | d. |
|--|------|----|----|
| Stokes', Nickel-plated | each | 10 | 0 |
| Bayonet form, „ | .. | 10 | 0 |
| Either of the above as made for Students | .. | 7 | 6 |

RUBBER-DAM WEIGHTS.

OVAL AND ROUND.

| | | |
|---|----|----|
| Made of Brass, with German Silver Springs, Nickel-plated through- | s. | d. |
| out, Sizes 1, 2, 3, 4—either shape or size | 2 | 0 |

RUBBER-DAM HOLDER,

WITH ADJUSTING RATCHETS.

(Dr. W. MITCHELL'S.)

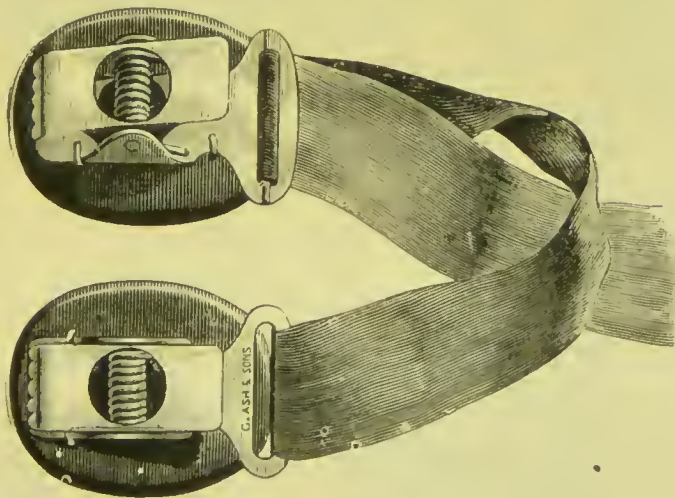


Rubber-dam Holder, with vulcanite guards, elastic braid, and nickel-plated clips and ratchets s. d.
8 6

RUBBER-DAM HOLDER.

(Dr. H. P. FERNALD'S.)

HOSPITAL PATTERN.



| | | |
|---|------|-------|
| Dr. H. P. Fernald's, Nickel-plated | each | s. d. |
| Hospital Pattern | " | 3 6 |
| " " without vulcanite guards | " | 2 6 |
| Dr. Cogswell's, with slide clamp and vulcanite guards | " | 3 6 |
| | | M 2 |

COTTON=WOOL ROLLS.



Large.

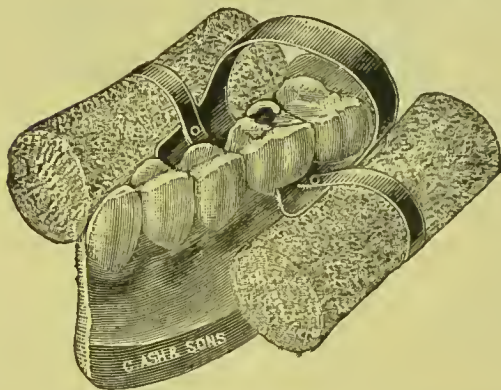


Small.

| | Full size. | | s. | d. |
|---|------------|----------|----|----|
| In packets containing 100 either size or assorted | | per pkt. | 6 | 10 |
| " " 500 " " | | " | 3 | 6 |

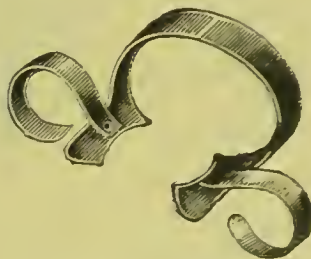
WOOL=ROLL CLAMPS.

FIG. 1. (Designed by Mr. F. GROSS.)



Clamp applied.

FIG. 2.

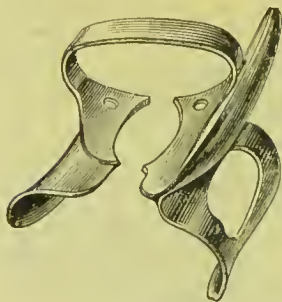


Clamp showing spring loops.

| | | | |
|--------------------|-------------------------|----|----|
| | For Bicusps and Molars. | s. | d. |
| Price, either size | | 3 | 0 |

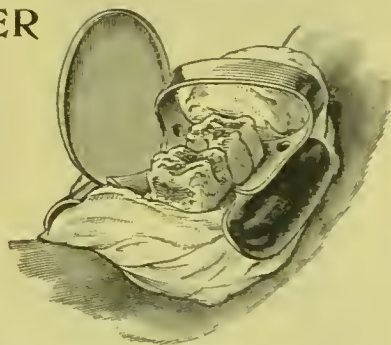
ABSORBENT=PAPER CLAMPS.

(Dr. C. H. STOKES'.)



Right Side.

| | | |
|----------------|----|----|
| | s. | d. |
| Either side | 5 | 6 |
| Without Tongue | | |
| Guards | 3 | 0 |



Left Side.

WOOL=ROLL CLAMPS
FOR LOWER MOLARS AND BICUSPIDS.

(Mr. FRANCIS ROGERS'.)

These Clamps can be used on
either side of the mouth.

Bicuspid.

| | | |
|-------|------|-----|
| | s. | d. |
| Price | each | 3 6 |



Molar.

IVORY'S RUBBER-DAM CLAMPS.

(ALL NICKEL-PLATED.)



00.



0.



1.

For Bicuspids.

Each, 2s. 6d.



2.

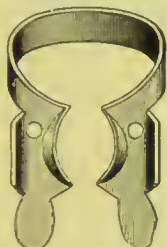


2A.



3.

Lower Molars.



4.

Upper Molars.



5.

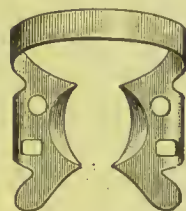
Each, 2s. 6d. ;



6.

For Labial Cavities.

3s. ;



7.

Lower Molars.

2s. 6d.



7A.

Lower Molars.



8.

Upper Molars.

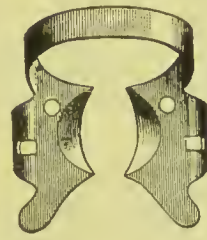
Each, 2s. 6d. ;



9.

For Labial Cavities.

3s. ;



56.

Lower Molars.

2s. 6d.

NAPKIN CLAMP.



Cervix.



Molar.



Molar Clamp applied.

s. d.

Cervix Clamp, for cavities deep on the neck
of the tooth

each 6 3

Napkin Clamp, for molar or bicuspid

„ 3 0

RUBBER DAM CLAMPS.

(AMERICAN FORMS.)



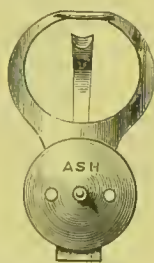
26. For Molars. 27. Bicuspid. 28. Molars. 29. Bicuspid. 30. Molars, right and left. 31. Molars, right and left.

Price, Nickel-plated each s. d.
1 8

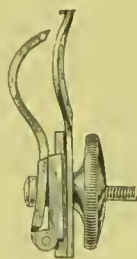
THE IDEAL CLAMP.

FOR LABIAL SURFACE CAVITIES ON THE SIXTEEN ANTERIOR TEETH.

(Dr. J. L. WILLIAMS'.)



Front View.



Side View.



Spanner.

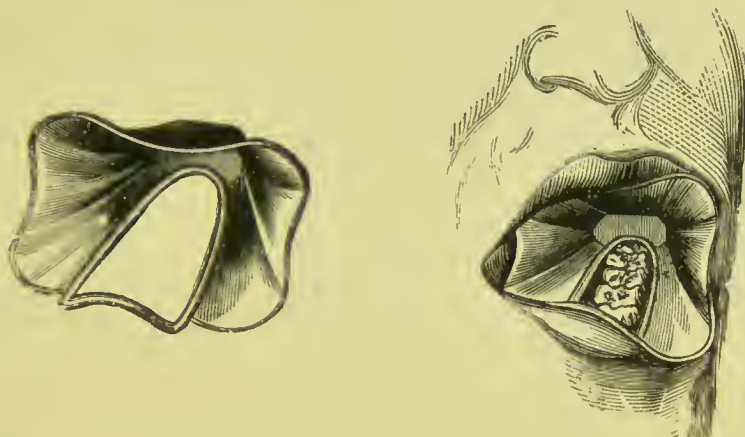
Price, complete with Spanner. s. d.
10 6

Clamp and Saliva Tube combined, Dr. C. H. Stokes', right

| | | | |
|---|----------|----|---|
| and left sides. | each | 6 | 0 |
| „ Molar or Bicuspid, Dr. C. H. Stokes' | .. | 2 | 0 |
| „ Cervix, Mr. R. P. Lennox's | .. | 10 | 6 |
| „ with broad flanges, Mr. J. F. Colyer's, for molars, | | | |
| right and left—set of 4 | „ | 2 | 0 |
| „ Cervix, Dr. Libby's, right and left | per pair | 12 | 6 |

Clamps of all makes supplied to order.

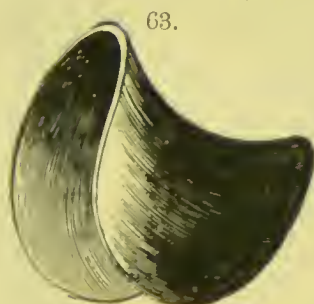
MOUTH SPECULUM.



This also serves as a Mouth Prop, Tongue and Cheek Guard, and Napkin Holder.

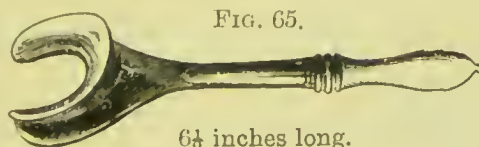
| | |
|--------------------------------|-------|
| | s. d. |
| Price, Nickel-plated | 3 0 |

LIP PROTECTORS, Etc.



| | |
|--|-------------------|
| Lip Protector, Nickel-plated. This contrivance is useful in protecting the lips, when using files, drills, or other cutting instruments (Fig. 63) | s. d.
each 1 6 |
|--|-------------------|

| | |
|--|--------|
| Lip Protector and Mouth Distender, for keeping the mouth distended during many operations upon the teeth. An elastic band is fastened to metal hooks and rings, and, passing round the head, keeps the parts distended without trouble to the Operator or patient. The pair of shields (size of Fig. 63), with hooks, etc., Nickel-plated, complete . . . (Fig. 64) | ,, 5 0 |
|--|--------|



6½ inches long.

| | |
|--|--------|
| Lip Protector and Mouth Distender, in German Silver, Nickel-plated, with Ebony handle . . . (Fig. 65) | ,, 3 0 |
|--|--------|

MOUTH MIRROR.

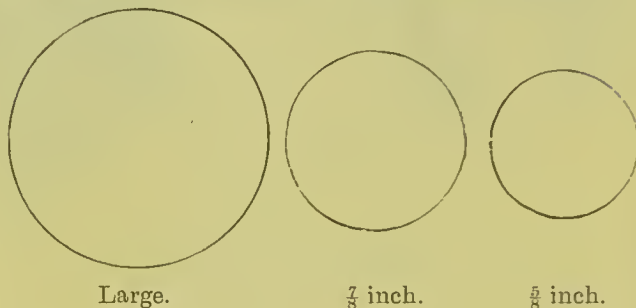
54c.

CHEAP FORM.

IN EBONY HANDLE.

FIG. 54c.

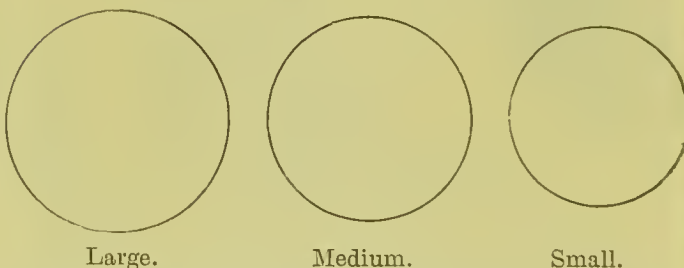
MADE IN THESE THREE SIZES.



| | | | s. | d. |
|---|---|------|----|----|
| In Ebony handle, large size | . | each | 3 | 6 |
| " " " $\frac{7}{8}$ or $\frac{5}{8}$ inch | . | " | 2 | 9 |

CHEAP MIRROR.

MADE IN THREE SIZES.



| | | s. | d. |
|---------------------------------------|------|----|----|
| In Fancy Metal handle, Nickel-plated— | | | |
| Any size | each | 1 | 6 |
| Four, any size or assorted | for | 5 | 0 |

CHEAP MIRROR.

MADE IN THREE SIZES—Large,
Medium, and Small. $\frac{3}{4}$

| | | s. | d. |
|--|------|----|----|
| In Smooth Metal handle, Nickel-plated— | | | |
| Any size | each | 1 | 0 |
| Six, any size or assorted | for | 5 | 0 |



MOUTH MIRRORS— VARIOUS.

No. 54, Sizes $\frac{7}{8}$ and $\frac{5}{8}$ in., in Ebony s. d.
handle each 5 6

„ 54, extra large, $1\frac{1}{2}$ in., in
Ebony handle each 10 0

„ 54, with screw frame for
Operator to renew the glass,
Sizes $\frac{7}{8}$ and $\frac{5}{8}$ in., in Ebony
handle each 9 0

„ 54, adjustable, in Ebony
handle 9 6

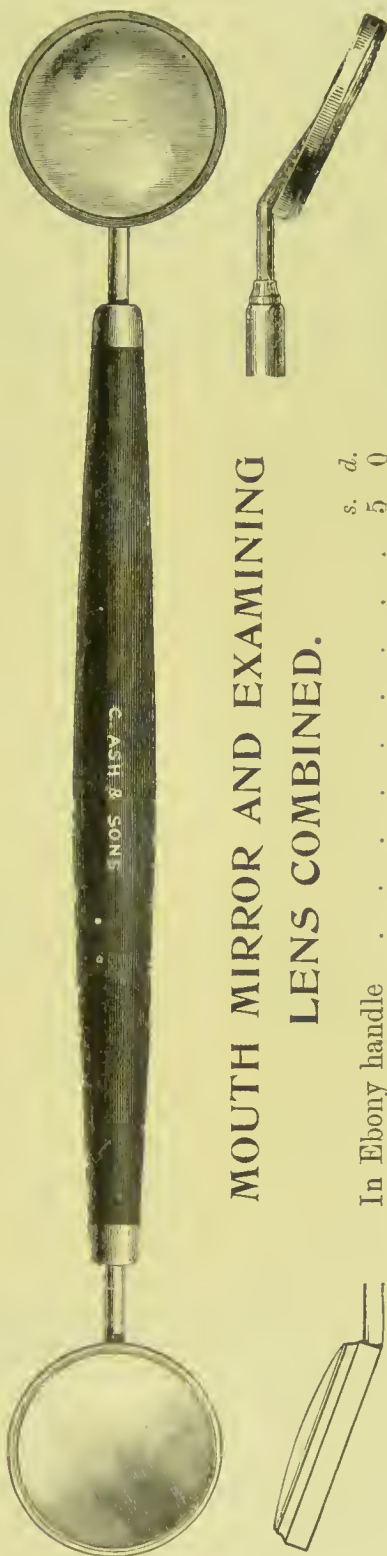
„ 54, adjustable, with screw
frame, in Ebony handle. . 14 0

„ 55, Mr. Rogers', Oval glasses,
in 4 sizes, in Ivory handle
each 9 0

„ 58, with Ball and Socket, Oval
glasses, 4 sizes, in Ivory
handle each 9 0

Pocket Mouth Mirror, with adjust-
able head, complete in leather
case 8 6

Double-ended Mirror, Mr. H.
Williams', Oval glasses, in
Ivory handle 15 0



MOUTH MIRROR AND EXAMINING
LENS COMBINED.

In Ebony handle s. d. 5 0

Mirror and Lens.

SYRINGES.

1.



7 inches long.

With India-rubber bulbs and Nickel-plated mounts and nozzle. Made in four sizes, with nozzles to slip off.

| | | Size of bulb: $\frac{1}{2}$ oz. | | 1 oz. | | 2 oz. | | 3 oz. | |
|-------------------|---------------|---------------------------------|----|-------|----|-------|----|-------|----|
| | | s. | d. | s. | d. | s. | d. | s. | d. |
| Syringes . . . | (Fig. 1) each | 5 | 6 | 7 | 0 | 8 | 0 | 9 | 0 |
| Extra Bulbs . . . | „ | 1 | 0 | 1 | 3 | 1 | 6 | 1 | 9 |

CHIP SYRINGE.

2.



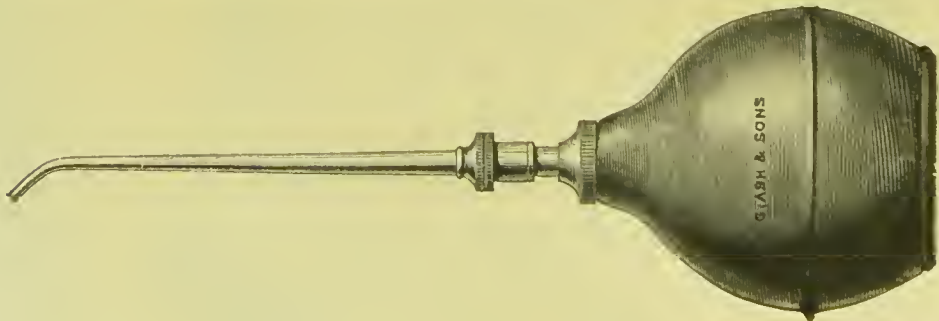
6 inches long.

| | | | |
|---|---|----|----|
| For blowing cuttings and dust out of cavities. | | s. | d. |
| With 2 oz. bulb and Nickel-plated nozzle. (Fig. 2) each | | 2 | 6 |
| Extra Bulbs | „ | 1 | 3 |

WATER SYRINGE,

WITH

SLIP-OFF NOZZLE AND TWO-OUNCE SIZE, FLAT-BOTTOMED BULB.



| | | | | | | | |
|-----------------|--|----|----|--|-----------------------|----|----|
| | | s. | d. | | | s. | d. |
| Price | | 5 | 0 | \| | Extra Bulbs | 1 | 3 |

IMPROVED HOT-AIR SYRINGE.

(AMERICAN PATTERN.)

With Asbestos connection suggested by Mr. KENDRICK.

Hot-Air Syringe, with patented Asbestos connection, metal parts Nickel-plated, and bulb covered with silk netting as illustrated

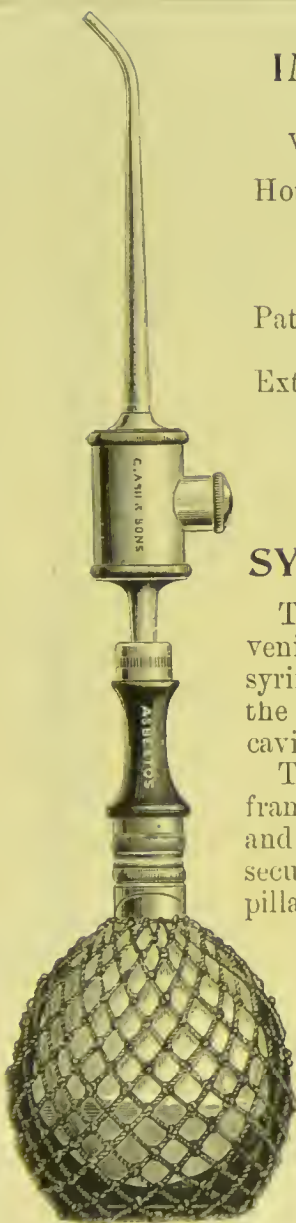
s. d.
14 0

Patented Asbestos connection fitted to Syringes now in use each

2 3

Extra Bulbs without net „

1 3



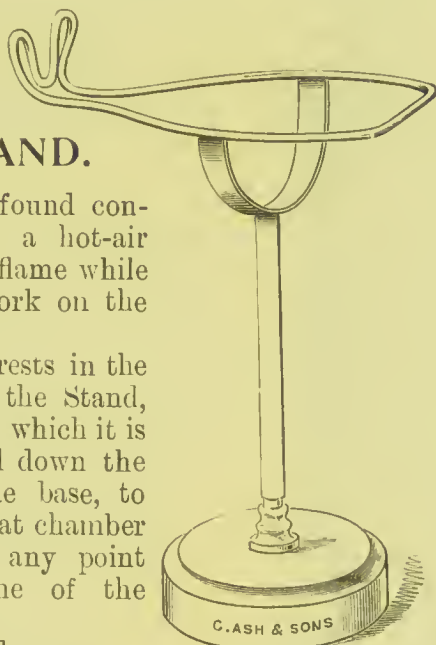
9 inches long.

HOT-AIR SYRINGE STAND.

This Stand will be found convenient for holding a hot-air syringe over a spirit flame while the Operator is at work on the cavity of the tooth.

The syringe bulb rests in the frame on the top of the Stand, and the metal tube to which it is secured slides up and down the pillar attached to the base, to permit of the heat chamber being fixed at any point above the flame of the lamp.

Price of Stand, s. d.
Nickel-plated 4 0



HALF-SIZE.

METAL SYRINGE.

3.



6 inches long.

With straight and curved nozzles, Nickel-plated throughout, and enclosed in leather case . (Fig. 3) each
Cheaper kind with one nozzle only, in card box. („ 3) „

s. d.
9 0
5 0

HUNT'S.



7½ inches.

HUNT'S SELF-FILLING WATER SYRINGE,

WITH CURVED DETACHABLE
NOZZLE.

The illustration shows the
Syringe with the spring com-
pressed.

| | s. | d. |
|-----------------------------|----|----|
| Price, Nickel-plated . . . | 7 | 6 |
| The same, extra large . . . | 9 | 6 |

ELLIOTT'S.



ELLIOTT'S SYRINGE,

FOR WASHING OUT NERVE-
CANALS.

| | | | | |
|---|--|--|----|----|
| Price, as illustrated, made of
German Silver Nickel-
plated, with steel spring
on piston rod and three
points, enclosed in neat
leather case | | | s. | d. |
| | | | 14 | 0 |

WYLEY'S COCAINE PELLETS.

| | | |
|---------------------------------|----|----|
| Pellets, ½-grain size, in tubes | s. | d. |
| containing 12 per tube | 0 | 9 |
| „ „ ½ doz. tubes | 4 | 0 |

| | | | |
|--|----------|---|---|
| Cocaine Tablets, in ¼-grain
and ½-grain, either size,
in tubes of 20 tablets | per tube | 1 | 0 |
|--|----------|---|---|

| | | | |
|--|----------|---|---|
| Eucaïne Tablets, in ¼-grain
and ½-grain, either size,
in tubes of 20 tablets | per tube | 1 | 6 |
|--|----------|---|---|



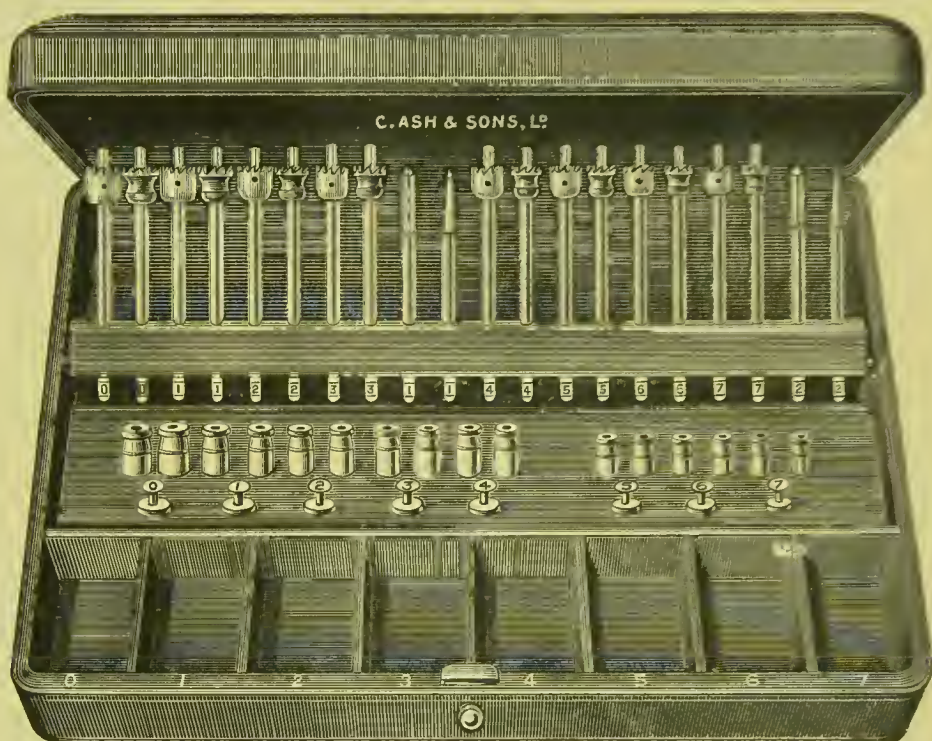
FULL SIZE.

ARTICLES, VARIOUS.

| | s. | d. |
|---|----|----|
| Water Syringe, Mr. R. P. Lennox's | 6 | 6 |
| Hot-Water Syringe, Mr. R. P. Lennox's | 10 | 6 |
| Root-Dressing Syringe, made in two sizes : | | |
| 100-Minim Bulb with Platinum Nozzle | 3 | 6 |
| " " " Vulcanite " | 2 | 6 |
| 20-Minim " " Platinum " | 3 | 6 |
| " " " Vulcanite " | 2 | 6 |
| Pivoting Instruments, Mr. Balkwill's— | | |
| Large or Small, either size per set | 10 | 6 |
| The same, with countersinking bur and twist drill for engine,
in leather case, either size per set | 21 | 0 |
| Double set, in leather case | 35 | 0 |
| Pins and Tubes for above : | | |
| In Platinum, large or small each | 4 | 6 |
| Pins only " " | 2 | 9 |
| Tubes only " " | 2 | 0 |
| In No. 1 Dental Alloy, large or small " | 2 | 9 |
| Pins only, large or small " | 1 | 9 |
| Tubes only " " | 1 | 3 |
| Countersinking Bur for engine, large or small " | 1 | 6 |
| Twist Drill for engine, large or small " | 1 | 0 |
| Diamond Reamers, large, medium, or small " | 4 | 0 |
| Melotte's Moldine Outfit | 5 | 3 |
| Extra Moldine, in ½-lb. packets per packet | 1 | 0 |
| " Impression Cnps each | 1 | 0 |
| " Rubber Rings " | 0 | 3 |
| " Fusible Metal Ingots " | 1 | 6 |
| Melotte's Gold Crown Dies per set | 25 | 0 |
| Crown-Die Plate, American | 12 | 6 |
| Hub Mould | 4 | 2 |
| Collar Crown Outfit, Mr. R. P. Lennox's | 11 | 3 |
| Lennox's Fusible Metal, in 1-lb. bars per bar | 8 | 0 |
| Juterbock's Seamless Gold Crowns : | | |
| Bicuspid each | 8 | 0 |
| Molars " | 10 | 0 |

BÜTTNER'S PIVOTING INSTRUMENTS.

MANUFACTURED BY C. ASH & SONS.

*Descriptive Circular sent on application.*

Set of 20 Instruments, eight pairs of brass roots, and set of eight brass caps, s. d.
complete in leather case 62 6

GOLD CAPS AND PLATINUM CAPS, FOR BÜTTNER'S METHOD OF PIVOTING.



Cap with long pin. Cap with short pin. Sizes 0. 1. 2. 3. 4. 5. 6. 7.

These are made with *long* and with *short* pins, in eight different sizes, as here illustrated, to correspond with the instruments invented by Dr. Büttner.

| | | s. | d. |
|--|------|----|----|
| Gold Caps with long pins, any size or assorted | each | 3 | 0 |
| " " short " " any size " assorted | " | 2 | 6 |
| Platinum Caps with long pins, any size or assorted | " | 3 | 9 |
| " " short " " " " " " " " " " " " | " | 3 | 0 |

PLATINUM CAP WITH CROWN PIN.

SUITABLE FOR USE WITH CROWNS WHICH ARE BACKED WITH
OUR HIGH OR LOW FUSING GUM BODY.



Made in Sizes 0 to 7 as shown above each 4 6

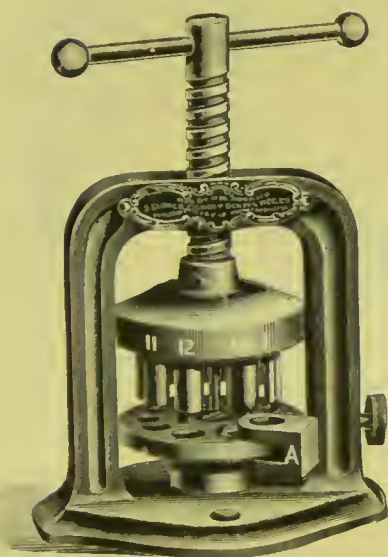
SHARP'S SEAMLESS CROWN OUTFIT.

Descriptive Circular on Application.

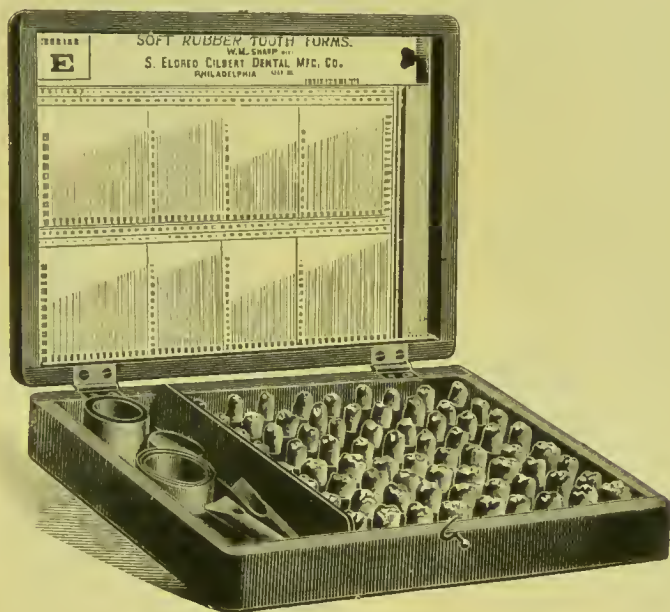
Dr. Sharp's system of making Seamless Contoured Gold Crowns with this Outfit is simple, easy, and rapid. Since it was introduced hundreds of Dentists have adopted it, and speak of it in terms of the highest praise.

FIG. 2.

FIG. 1.



Draw-Press for forming the Gold
or other Metal Shells.



Box of Rubber Teeth Forms, with Measurement
Table and Accessories.

Full Directions for use supplied with each Outfit.

| | | | |
|---|------------|----|-----|
| Set E —Consisting of Draw-Press and an Assortment of 72 Rubber Forms of Molars and Bicuspidis in box, with Punches, Fusible Metal, two Rubber Blocks, two Moulding Rings, and a supply of Copper Discs | £ | s. | d. |
| | 6 | 5 | 0 |
| Sets D and F —Consisting of Draw-Press, but with an Assortment of 72 Rubber Forms, comprising Centrals, Laterals, Canines, Molars, and Bicuspidis, either set | 6 | 5 | 0 |
| Set G —Consisting of Draw-Press, but with 144 Rubber Forms of Molars and Bicuspidis, Centrals, Laterals, and Canines | 8 | 6 | 8 |
| Dise Cutter, for cutting out Discs Nos. 16, 17, 18 | 1 | 1 | 0 |
| Gold Discs, 22 carat, Ash's No. 4 Gauge, Sizes 15, 16, 17, 18, 19 | per dwt. | 0 | 4 6 |
| Swaging Compound | per packet | 0 | 1 0 |
| Sharp's Fusible Metal | per ingot | 0 | 1 3 |
| Box of Assorted Wooden Punches for Swaging | | 0 | 1 0 |
| Annealed Polished Sheet Copper, suitable for Bands | per packet | 0 | 1 0 |

MR. R. P. LENNOX'S MATRIX OUTFIT.



Outfit, consisting of Flexible Key, Shaping Tool, Clamp, and 36 Matrices . . . s. d. 10 0

Parts separately :

| | | | | |
|-----------------------|-----------|--------|---|---|
| Flexible Key (Fig. 1) | . . . | each | 1 | 9 |
| Shaping Tool (,, 2) | . . . | ,, | 1 | 0 |
| Clamp (,, 3) | . . . | ,, | 6 | 0 |
| ,, (,, 3A) | . . . | ,, | 6 | 0 |
| Matrices (,, 4) | . . . | 3 doz. | 1 | 3 |
| Wire Twister (,, 6) | . (extra) | each | 2 | 0 |

Directions for use supplied with each Outfit.

PATENTED REGULATING APPLIANCES.

(DR. E. H. ANGLE'S.)

SET No. 1 :

| | s. | d. |
|---|----|----|
| Traction Screw, <i>A</i> and <i>D</i> | 5 | 3 |
| „ „ <i>B</i> and <i>C</i> | 4 | 2 |
| Jack-Screw, <i>E</i> and <i>J</i> | 4 | 2 |
| Coils of Band Material, <i>C</i> , <i>F</i> , and <i>H</i> each | 1 | 3 |
| Retaining Wire, <i>G</i> | 1 | 3 |
| Rotating Levers, <i>L</i> per $\frac{1}{2}$ doz. | 1 | 0 |
| Retaining Pipes, <i>R</i> set of ten | 3 | 2 |
| Wrench, single-ended | 0 | 8 |

SET No. 2 :

| | | |
|--|---|---|
| Traction Bar, <i>A</i> | 8 | 4 |
| Wire Arch, <i>B</i> | 6 | 3 |
| Anchor Bands and Pipes, complete, <i>D</i> | 5 | 3 |
| Coils of Band Material. each | 1 | 3 |
| Heavy Elastic Bands set of six | 0 | 5 |

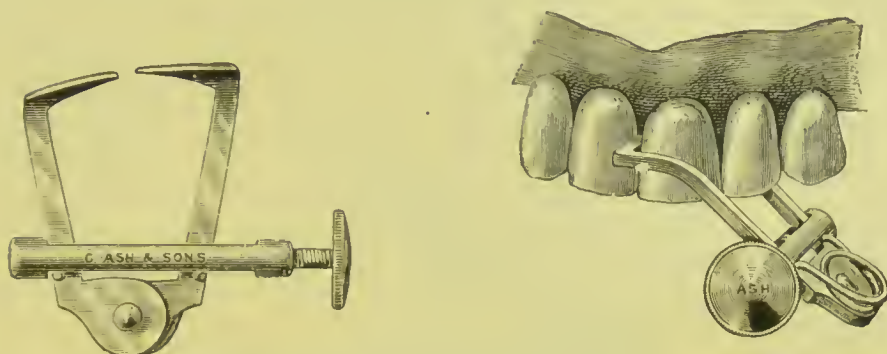
EXTRA PARTS :

| | | |
|---|----|---|
| Adjustable Bands (Nos. 1 & 2) each | 4 | 2 |
| „ Fracture Bands („ 3 & 4) „ | 4 | 7 |
| Head Gear with Heavy Elastic Bands „ | 16 | 8 |
| Chin Retractor, without Head Gear | 10 | 5 |
| Expansion Arch | 6 | 3 |
| Dr. Angle's Treatment of Malocclusion, etc. . . in cloth, net | 16 | 0 |

| | | |
|---|---|---|
| Spring Making Pliers, Mr. G. Northcroft's | 4 | 6 |
| Pliers for cutting Steel Wire, Dr. Coffin's | 4 | 0 |
| Steel Wire, Nos. 13, 14, 17, 19 per hank | 0 | 4 |

The same, Gilt, supplied to order.

IMPROVED UNIVERSAL SEPARATOR.



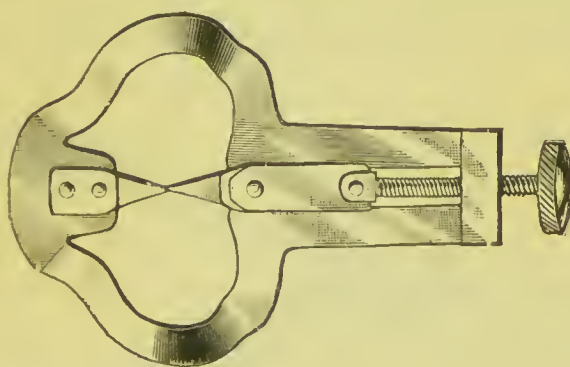
| | | |
|--------------------------------|------|-------|
| Price. Nickel-plated | each | s. d. |
| | | 7 0 |

PERRY'S SEPARATORS.

Six sizes. A, B, C, D, E, F. A, for separating molars ; B, for separating molars from bicuspid ; C, for the bicuspid ; D, for the front teeth ; E, for separating the first bicuspid from the cuspid ; F, for incisors too small for D.

| | | |
|----------------------------|------|-------|
| Price | each | s. d. |
| | | 14 6 |
| Key for applying | „ | 2 1 |

IVORY'S DOUBLE-BOW SEPARATOR.

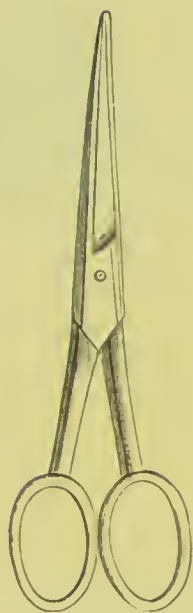


| | |
|--------------------------------|-------|
| Price. Nickel-plated | s. d. |
| | 14 6 |

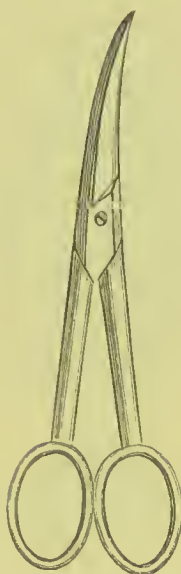
REGULATING APPARATUS.

| | |
|--|----------|
| Jack Screws, Old style, per set of 3 | s. d. |
| | 12 0 |
| „ „ New „ „ „ „ | 7 6 |
| Screw and Pull Back, Dr. Lee's | 5 6 |
| Jack Screw, the Lee-Bennett | 5 6 |
| Expander, Mr. Robertson's, in two sizes, large and small | each 7 0 |
| | N 2 |

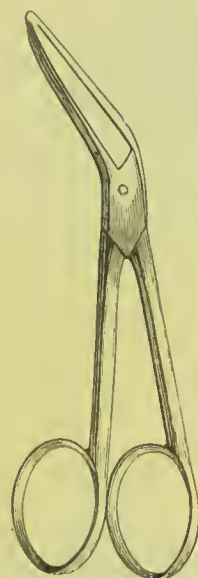
SCISSORS, FOR CUTTING THE GUMS, ETC.



Straight.



Curved.



Bent.

Full length of each, $4\frac{1}{2}$ inches.

| | | s. | d. |
|---|------|----|----|
| In Steel, highly polished, Straight | each | 1 | 9 |
| „ „ Curved | „ | 3 | 6 |
| „ „ Bent | „ | 2 | 6 |
| „ Nickel-plated extra | „ | 0 | 9 |

Gum Scissors of any other form made or obtained to order.

GUM SCISSORS,

WITH LONG HANDLES AND THIN DELICATE BLADES.

Much esteemed for the ease with which they can be used in any part of the mouth, for removing ragged and torn edges of gum, cutting ligatures, etc.

| | | s. | d. |
|---|------|----|----|
| Straight, in polished Steel | each | 3 | 0 |
| „ Nickel-plated | „ | 3 | 9 |
| Curved, in polished Steel | „ | 4 | 6 |
| „ Nickel-plated | „ | 5 | 3 |
| Sickle shape, in polished Steel | „ | 4 | 6 |
| „ Nickel-plated | „ | 5 | 3 |

BRACKET LAMPS.

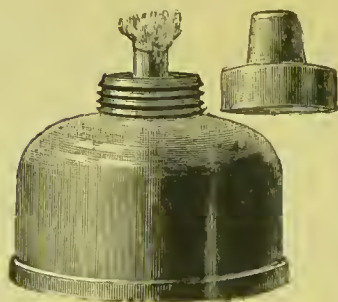
OUTSIDE MEASUREMENT OF
GLASS PART :

| | High. | Diameter. |
|-------------|-------------------|------------------------|
| Deep . . . | $1\frac{3}{4}$ by | $2\frac{1}{2}$ inches. |
| Shallow . . | 1 by | $2\frac{1}{2}$ „ |

For general use in the Operating Room.
In two sizes, deep and shallow. Made of
flint glass with Nickel-plated mountings.



| | | |
|--|----------|--------------|
| Price, either size with Shield | each | s. d.
2 6 |
| „ without Shield | „ | 1 3 |
| Separately : Glass vessels only, deep or shallow,
for renewing broken lamps | „ | 1 0 |
| Wicks for ditto | per doz. | 0 3 |



METAL SPIRIT LAMP.

Diameter, $2\frac{1}{2}$ in. ; height, $2\frac{1}{2}$ in.

With Screw Cap. Suitable for Visiting Bag
or Student's Cabinet.

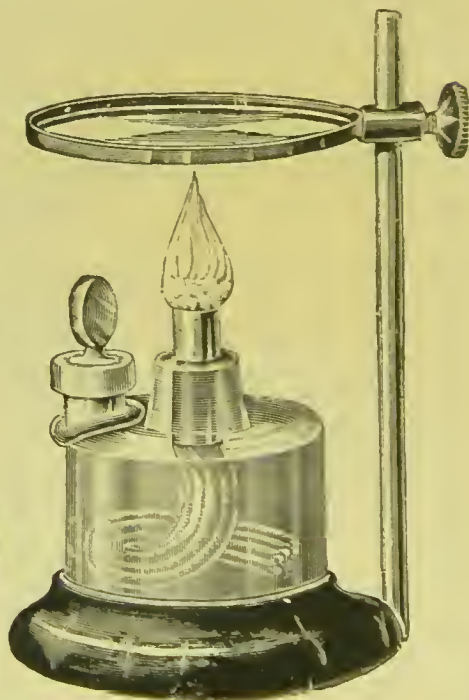
| | |
|--------------------------------|--------------|
| Price, Nickel-plated | s. d.
2 0 |
|--------------------------------|--------------|

ALCOHOL LAMP
FOR
ANNEALING
GOLD.

Pure alcohol should be
used in this Lamp when it
is employed for annealing
gold, and the directions for
annealing should be most
strictly followed.

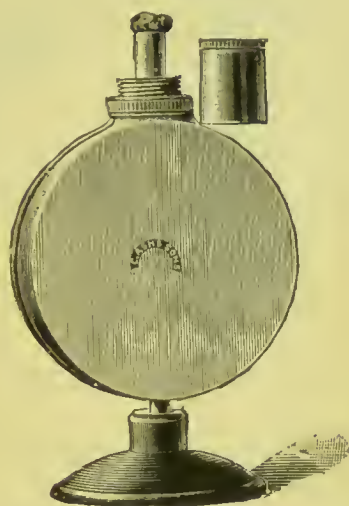
PRICES :

| | |
|--------------------------------|--------------|
| Lamp, as illustrated | s. d.
5 0 |
| Extra Mica Trays | 0 3 |



FLAT SPIRIT LAMP.

With Screw Cap and Removable Base.



Suitable for Visiting Case, and for Hospital Students.

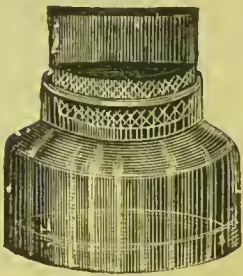
| | s. | d. |
|---|----|----|
| Price, in stout Metal, Nickel-plated, japanned base | 3 | 0 |

ARTICLES VARIOUS.

| | s. | d. |
|--|----|----|
| How's Gutta-Percha Heater, with directions for use | 1 | 3 |
| Flagg's Gutta-Percha Softener and Instrument Warmer | 20 | 0 |
| Annealing Tray for Gold for same extra | 2 | 0 |
| The Model Annealing Gas Burner | 4 | 0 |
| Glass Mixing Cube, 2-inch (No. 1) | 1 | 0 |
| ,, ,, ,, 2 $\frac{1}{2}$,, (,, 1) | 2 | 6 |
| ,, ,, ,, 2 $\frac{1}{2}$,, hollow on two faces (,, 2) | 3 | 0 |
| ,, ,, Slab, 4 by 3 $\frac{3}{4}$ inches | 1 | 0 |
| Spooner's Mixing Pad | 1 | 0 |
| Rubber Pestle, Dr. Genese's | 0 | 10 |
| ,, Mortar ,, | 1 | 6 |

MERCURY BOTTLE.

HOCKLEY'S
MASTIC
BOTTLE.



1½ inches high.



2¾ inches high.

PESTLE AND
MORTAR.



FIG. 2.

| | | s. | d. |
|---|-----------|----|----|
| Hockley's Mastic Bottle, with rubber bung | each | 2 | 0 |
| Mercury Bottle, in Boxwood | " | 1 | 0 |
| " " " without cap | " | 0 | 6 |
| Porcelain Pestle and Mortar | " | 0 | 9 |
| Glass " " Fletcher's | " | 1 | 6 |
| " " " Ash's | " | 1 | 0 |
| Rowney's Cement Bottle | " | 2 | 9 |
| Drop Bottle | " | 1 | 0 |
| " " Pedley's | per dozen | 2 | 6 |



FULL SIZE.

MEDICAMENT BOTTLE.

We only keep it in stock with the following inscriptions, but can supply any other to order.

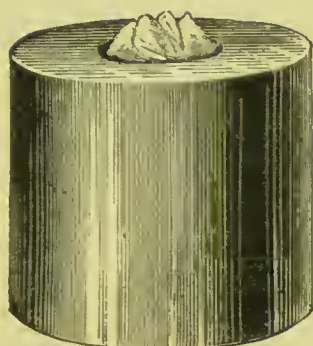
| | |
|--------------------|----------------|
| Abs. Alcohol | Ol. Eucalyptus |
| Iodoform | Mastic |
| Carbolic Acid | Carb. Resin |
| Creasote | Arsenic |
| Nit. Silver | Chloro-Percha |
| Aconite and Iodine | Ol. Cinnamon |
| Tinct. Iodine | Ol. Cloves |

Chloroform

| | s. | d. |
|-----------------------------|----|----|
| Price, with any inscription | 1 | 0 |

COTTON=WOOL HOLDERS. FIG. 2.

FIG. 1.

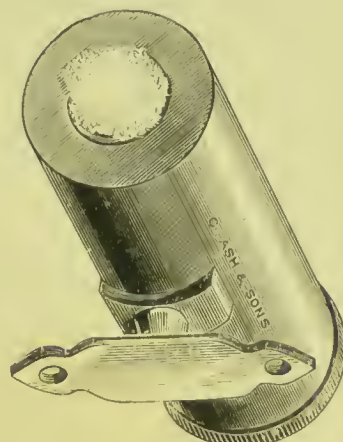


Made of stout Brass,
Nickel-plated.

PRICES:

| | | | s. | d. |
|--------|---|------|----|----|
| Fig. 1 | . | each | 3 | 6 |
| „ 2 | . | „ | 5 | 0 |

Outside measurement $\left\{ \begin{array}{l} 1\frac{3}{4} \text{ in. high.} \\ 2 \text{ in. diameter.} \end{array} \right.$



Outside measurement $\left\{ \begin{array}{l} 2\frac{5}{8} \text{ in. high.} \\ 1\frac{1}{4} \text{ in. diameter.} \end{array} \right.$

WASTE DRESSING HOLDERS.

FIG. 1.



Made of stout Brass,
Nickel-plated.

PRICES:

| | | | s. | d. |
|--------|---|------|----|----|
| Fig. 1 | . | each | 4 | 0 |
| „ 2 | . | „ | 5 | 0 |

FIG. 2.



COTTON=WOOL PELLET HOLDER.

(MR. T. CUTTRISS'S.)



HALF-SIZE.

The difficulty of picking up one pellet at a time with the tweezers, owing to the lightness and the adherent nature of the cotton, is entirely overcome by the use of Mr. Cuttriss's ingenious Holder, here illustrated.

| | s. | d. |
|--|----|----|
| Price, Nickel-plated | 3 | 6 |
| Absorbent Cotton Pellets, per box (about 10,000) | 1 | 0 |

PREPARATIONS FOR THE OPERATING ROOM*(continued).*

| | | |
|---|-------------------------|--------------|
| Eugenol, for obtunding sensitive dentine while excavating cavities | $\frac{1}{2}$ -oz. bot. | s. d.
2 6 |
| Formaldehyde Paste (Dr. Scheuer's) | per tube | 5 0 |
| Fletcher's Styptic.—See Carbolyzed Resin on previous page. | | |
| Glycerole of Thymol, for treatment of pulp and alveolar abscess | 1-oz. bot. | 1 0 |
| Iodine Liniment, for allaying pain and inflammation | „ „ | 1 3 |
| „ Tincture of „ „ „ | „ „ | 0 10 |
| „ „ „ „ „ | 2-oz. „ | 1 3 |
| „ and Aconite (Dr. Fleming's), double strength, in equal parts, for allaying pain | 3-oz. „ | 2 0 |
| Iodoform, for root dressing; can be dissolved in any essential oil | 1-oz. „ | 2 3 |
| „ Paste (Mr. Pedley's): an antiseptic root filling | per „ | 1 0 |
| „ Root Filling (Dr. Scheuer's) | per tube | 5 0 |
| Iron, Perchloride of: a valuable styptic and astringent | 1-oz. bot. | 0 8 |
| Listerine: an antiseptic, prophylactic, and deodorant | per „ | 4 0 |
| Mastic Cement, thick, for dressings and temporary fillings | „ „ | 0 6 |
| „ „ thin, for fixing tube teeth, etc. | „ „ | 0 9 |
| Morphia, Acetate of, for pulp treatment and as a pain obtundent in conjunction with Oil of Cloves | $\frac{1}{8}$ -oz. „ | 1 6 |
| Myrrh Gum, for making tinctures, mouth washes, etc. | per lb. | 5 9 |
| „ Tincture of, for treatment of the gums, etc. | 8-oz. bot. | 2 9 |
| „ „ „ „ | 16-oz. „ | 5 0 |
| Opium, Tincture of, for allaying inflammation | 1-oz. „ | 0 8 |
| „ „ „ „ | 2-oz. „ | 1 0 |
| Phenate of Soda; has the same qualities as Phenol Sodique | 4-oz. „ | 1 0 |
| „ „ „ „ „ „ | 10-oz. „ | 1 9 |
| Phenol Sodique: useful as a mouth wash, pain obtundent, styptic, detergent, antiseptic, disinfectant, and stimulant | 8-oz. „ | 1 4 |
| „ „ „ „ „ „ | per doz. | 14 0 |
| Peppermint, Oil of, for perfuming Tooth Powder, etc. | 1-oz. bot. | 3 6 |
| Peroxide of Hydrogen: a powerful antiseptic and germicide | 2-oz. „ | 0 6 |
| Potassa cum Calce, in sticks: a powerful caustic. | per „ | 0 9 |
| Sandarac Varnish, for temporary stoppings | „ „ | 0 10 |
| Sanitas Oil, for treatment of pulp and alveolar abscess. | 4-oz. „ | 1 0 |
| Styptic Colloid, for arresting hæmorrhage | per bot. | 2 6 |
| Sulphur Cement, in powder, for fixing tube teeth, etc. | „ „ | 0 6 |
| Tannin, for reducing inflammation and arresting hæmorrhage | 1-oz. „ | 1 0 |
| Vaseline | per „ | 1 0 |
| Williams' Germicide | „ „ | 1 9 |

Other preparations obtained to order.

NERVE=DESTROYING AGENTS.

| | | s. | d. |
|--|----------|----|----|
| Arsenic Powders, $\frac{1}{16}$ grain each | per doz. | 0 | 9 |
| Arsenious Paste | per bot. | 2 | 0 |
| Azotine (Rowney's) | „ | 5 | 0 |
| Baldock's Improved Nerve-destroying Paste | „ | 5 | 0 |

This is now prepared in the form of a soft inseparable paste, which renders it extremely easy of application. It has been more extensively used during the last thirty years than any other known devitalising preparation.

| | | | |
|--|----------|---|---|
| Devitalising Nerve Fibre (S. S. White's) | per bot. | 2 | 1 |
| „ „ Paste (Dr. Scheuer's) | per tube | 5 | 0 |

SUNDRIES FOR OPERATING ROOM.

| | | | |
|---|-----------------------|-----|--------|
| Non-Absorbent Cotton-Wool, Natural colour, for dressings, temporary stoppings, etc. | per $\frac{1}{2}$ lb. | s. | d. |
| „ „ „ „ „ „ „ | | 1 | 3 |
| „ „ „ „ „ „ „ | | 2 | 0 |
| Bib for Patients (Dr. Horton's), in check rubber cloth | each | 3 | 0 |
| Articulating Paper : | | | |
| Broad Black (Mr. Barclay's), thick and thin | per doz. books | 2 | 6 |
| „ „ (Ash's) | „ „ | 1 | 6 |
| „ Blue („) | „ „ | 1 | 6 |
| Narrow Blue or Black (Ash's) | „ „ | 1 | 0 |
| Caustic (Nitrate of Silver), in Walnut holders | each | 0 | 6 |
| „ „ „ in sticks to fit holder | per stick | 1 | 2 |
| „ Holder, in Silver. | each | 7 | 0 |
| Dragon Canes, for use after scaling. | in bundles of 1 doz. | 1 | 0 |
| Iodine Dresser (Mr. J. Dennant's) | per doz. | 3 | 0 |
| Arkansas Stones, grooved (Dr. Sachs') | each | 10 | 0 |
| „ „ in cases | from each | 3/0 | to 8 0 |
| „ Slips | „ „ | 1/0 | to 2 6 |
| „ „ knife edge | each | 1 | 6 |
| Cotton-Wool for packing | per lb. | 1 | 3 |

MATERIALS FOR IMPRESSIONS.**CROWN COMPOSITION.**

This Composition gives a sharper impression than plaster, does not require re-uovating, and is particularly suited for use with Fusible Metal.

| | | |
|--|---------|--------------|
| Supplied in $\frac{1}{2}$ -lb. boxes | per lb. | s. d.
5 0 |
| „ „ 6-lb. lots | „ lot | 24 0 |

PERFECTED IMPRESSION COMPOSITION.

A superior article for taking impressions of the mouth. Prepared in square cakes.

| | | |
|--|---------|--------------|
| Supplied in $\frac{1}{2}$ -lb. boxes | per lb. | s. d.
3 6 |
| „ „ 6-lb. lots | „ lot | 18 0 |
| Extra soft, for renovating | „ lb. | 3 6 |

GLOBE MODELLING COMPOSITION.

This preparation is extensively used, and is recommended as a first-class article.

| | | |
|--|---------|--------------|
| Supplied in $\frac{1}{2}$ -lb. boxes | per lb. | s. d.
3 0 |
| „ „ 6-lb. lots | „ lot | 16 6 |

HIND'S GODIVA COMPOSITION.

No. 1, Soft; No. 2, Medium; No. 3, Hard; No. 4, Extra Soft.

| | | |
|--|---------|--------------|
| Supplied in $\frac{1}{2}$ -lb. boxes | per lb. | s. d.
3 6 |
| „ „ 6-lb. lots | „ lot | 18 0 |

ENGLISH BEESWAX.

(BEST QUALITY.)

| | | |
|--|---------|--------------|
| Supplied in $\frac{1}{2}$ -lb. boxes | per lb. | s. d.
3 0 |
|--|---------|--------------|

PINK GUTTA-PERCHA.

| | | |
|--|---------|--------------|
| Supplied in thick sheets, wrapped in tinfoil | per lb. | s. d.
9 0 |
| „ thin „ „ „ | „ | 9 0 |

PARAFFIN WAX.

| | | |
|--|---------|--------------|
| Supplied in $\frac{1}{2}$ -lb. boxes | per lb. | s. d.
3 0 |
|--|---------|--------------|

PLASTER OF PARIS FOR IMPRESSIONS.

(EXTRA SUPERFINE.)

| | | | | | | |
|--------------------|---------------|-------|-------|-------|--------|--------|
| | In tins— | 1 lb. | 2 lb. | 7 lb. | 14 lb. | 28 lb. |
| Very quick setting | Price | 0/6 | 0/9 | 2/0 | 3/9 | 6/0 |
| „ „ „ | per 7-lb. bag | | | | | 1 0 |
| „ „ „ | per cwt. | | | | | 12 6 |

Other Impression Materials supplied to order.

STENTS COMPOSITION.

Any impression composition sold as Stents, which does not bear our registered Trade Mark—*see illustration*—is not made from the original recipe, and should not be accepted as Stents.



Our genuine, original **STENTS COMPOSITION** is prepared in round cakes, pink or yellow in colour, and supplied in half-pound boxes.

Price, per lb., 3s. 6d. ; 6 lbs., 18s.

Our genuine, original **STENTS RENOVATING COMPOSITION**, which is expressly prepared for mixing with used, discoloured composition, to make it as good as new, is prepared in round pink cakes, and also supplied in half-pound boxes.

Price, per lb., 3s. 6d.

BEWARE OF INFERIOR IMITATIONS.

C. P. & A. Stent.

Sole Agents :

CLAUDIUS ASH & SONS, Ltd.,

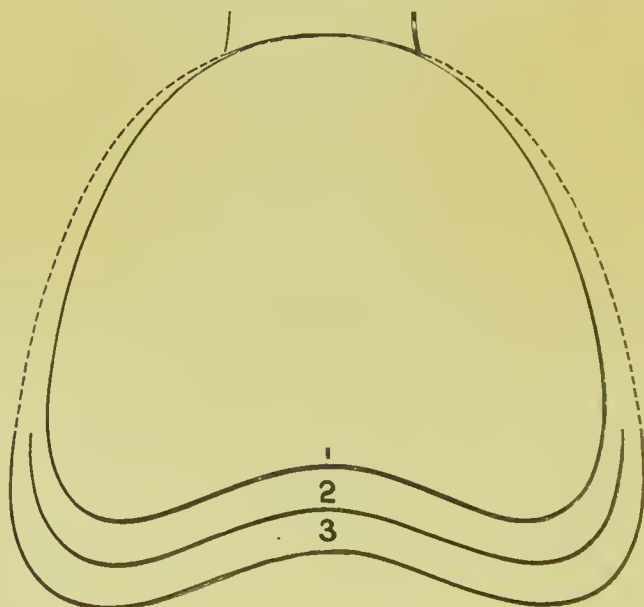
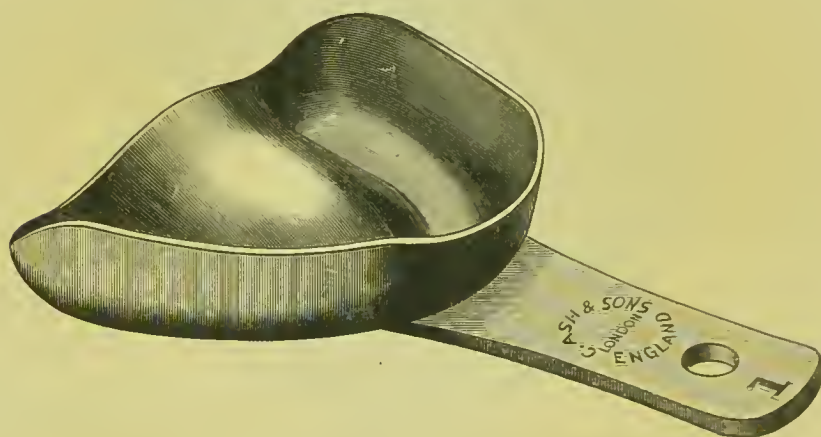
5 to 10, BROAD STREET, GOLDEN SQUARE, LONDON, W.

To be obtained of all Dental Dealers.

ASH'S ANATOMICAL IMPRESSION TRAYS.

These Trays are designed for taking impressions of average normal mouths, and are the outcome of suggestions made to us by many practical Operators.

UPPER.



They are made in Britannia Metal and in German Silver.

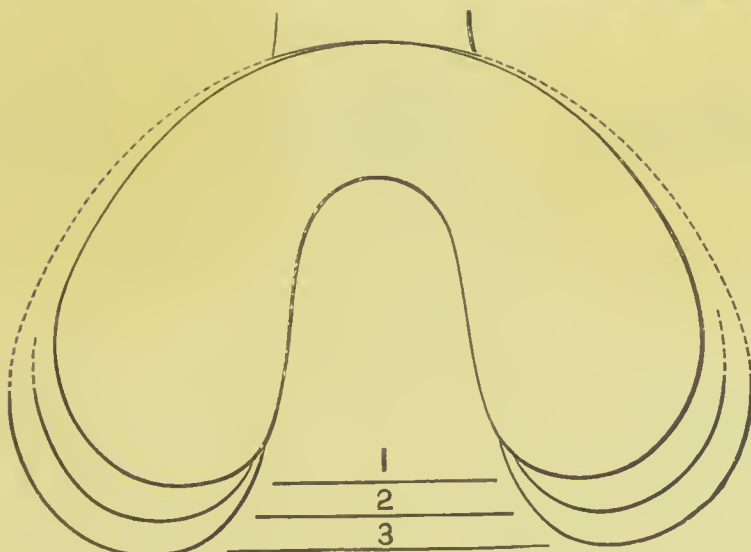
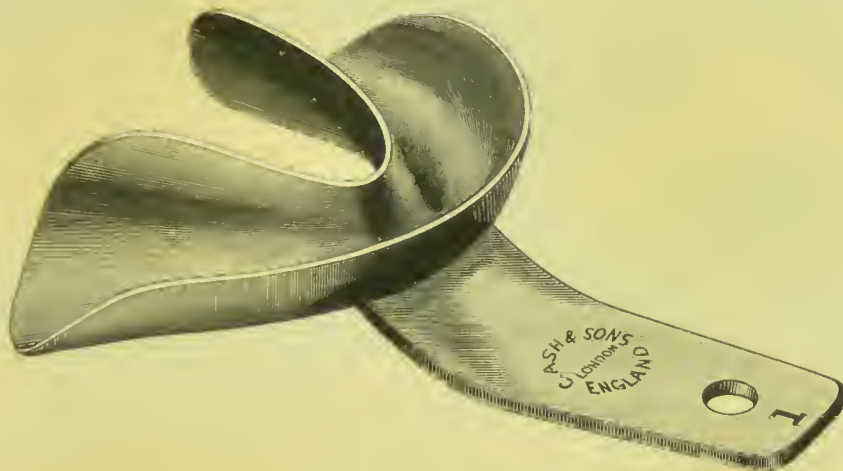
ASH'S

ANATOMICAL IMPRESSION TRAYS—*continued.*

The Britannia Metal Trays are stout enough to withstand the pressure of ordinary usage without altering in shape, but at the same time allow of ready adjustment to meet the needs of abnormal cases.

The handles are flat, and there is a hole in each to admit of the Trays being hung up when not in use.

LOWER.

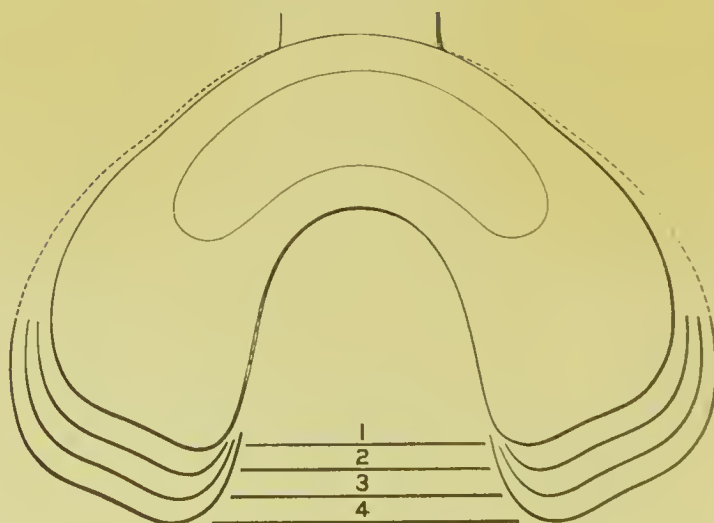


| | | | s. | d. |
|---|------|---|----|----|
| Upper in Britannia Metal, Sizes 1-3 | each | 2 | 0 | |
| „ German Silver, „ 1-3, Nickel-plated | „ | 1 | 9 | |
| Lower in Britannia Metal, „ 1-3 | „ | 2 | 0 | |
| „ German Silver, „ 1-3, Nickel-plated | „ | 1 | 9 | |
| | | 0 | | |

THE "IDEAL"

LOWER IMPRESSION TRAY.

With well in front, deep inner wall, and with outer wall flattened on each side at the back.



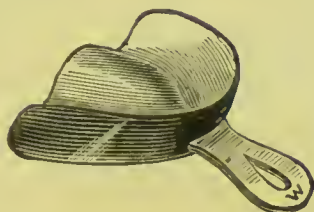
In German Silver, Sizes 1-4, Nickel-plated each

| | |
|----|----|
| s. | d. |
| 1 | 9 |

IMPRESSION TRAYS.

VARIOUS FORMS.

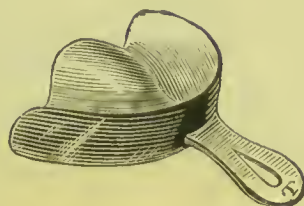
Form— W.



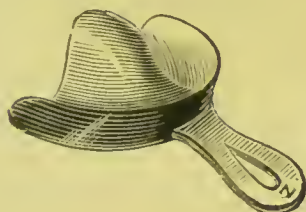
X.



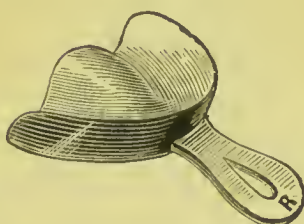
T.



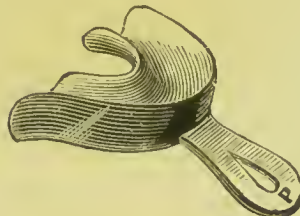
Form— Z.



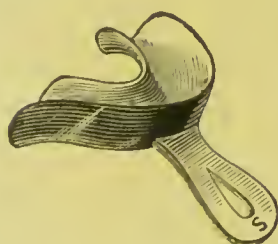
R.



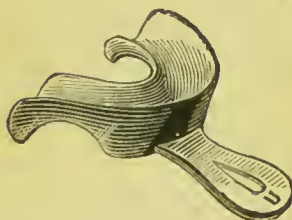
P.



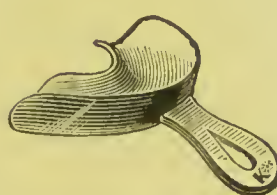
Form— S.



U.



K*.



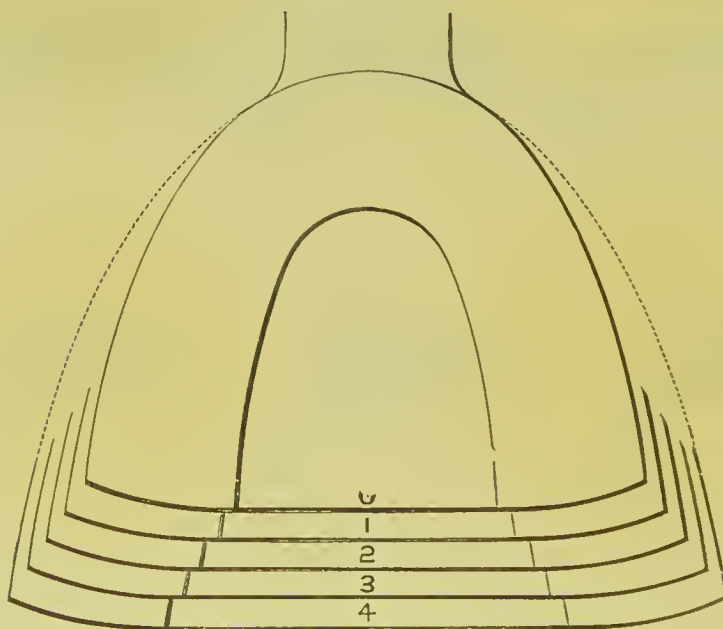
These trays are very useful. As will be seen from the illustrations, the UPPERS have extra high palates, and the LOWERS are made considerably deeper than usual. Z and K* are only made in one size, but all the others are supplied in four convenient sizes.

| | | |
|---|------|-------|
| In German Silver, Nickel-plated | each | s. d. |
| | | 1 9 |
| | | 0 2 |

UPPER IMPRESSION TRAYS.

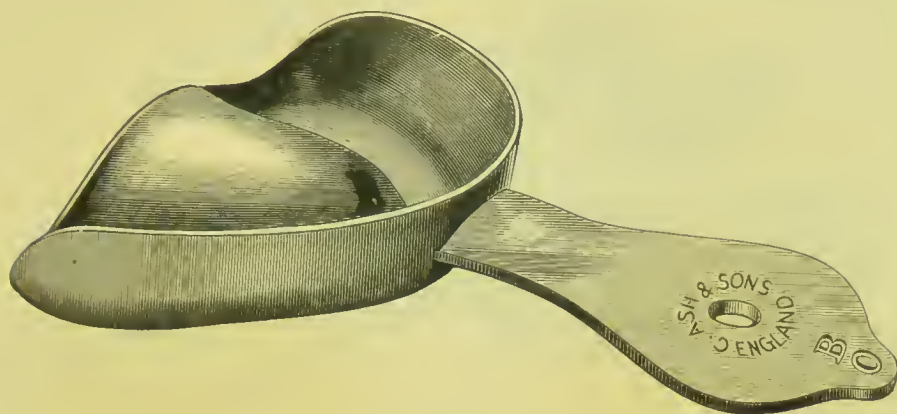


FORM A.

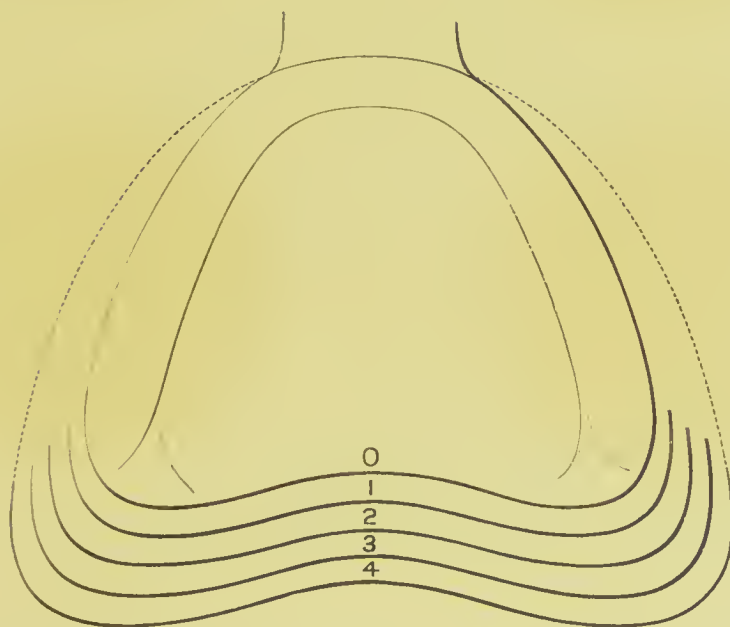


| | | s. | d. |
|---|------|----|----|
| Form A, Sizes 0-4, in Britannia Metal | each | 2 | 0 |
| „ A, „ 0-4, in German Silver, Nickel-plated | „ | 1 | 6 |
| „ AX, „ 0-4, narrow and long, in Britannia Metal . . | „ | 2 | 0 |
| „ AN, „ 0-3, with tapering palate, in German Silver,
Nickel-plated | „ | 1 | 9 |
| „ Extra Long and Deep, Sizes 0-2, in German Silver,
Nickel-plated | „ | 1 | 6 |

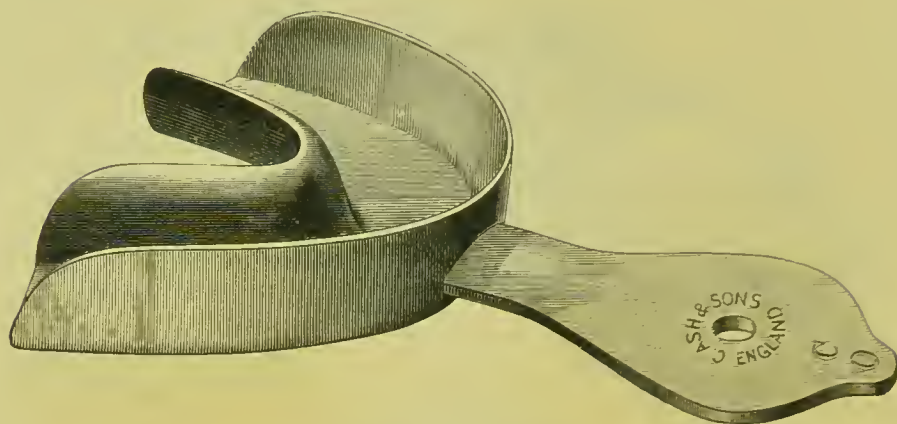
UPPER IMPRESSION TRAYS.



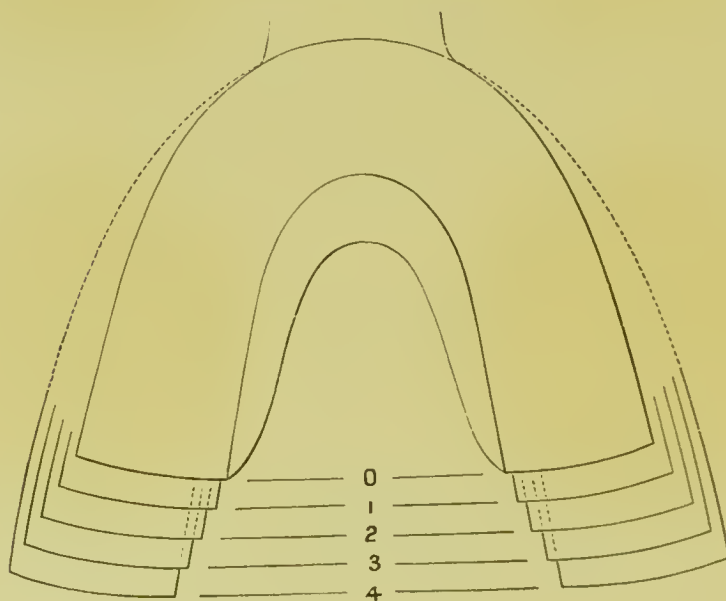
FORM B.



| | | s. | d. |
|--|------|----|----|
| Form B, Sizes 0-4, in Britannia Metal | each | 1 | 6 |
| „ B, „ 0-4, in German Silver, Nickel-plated | „ | 1 | 6 |
| „ BX, with turned-up ends, Sizes 1-3, in German Silver,
Nickel-plated | „ | 1 | 9 |

IMPRESSION TRAY.—FORM C UPPER.

Depth of Tray, $\frac{1}{2}$ inch.

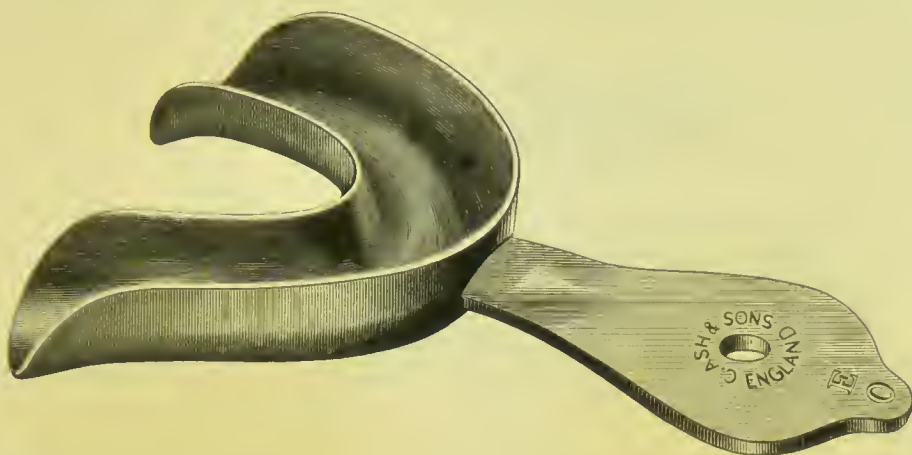


Form C Upper, as illustrated.

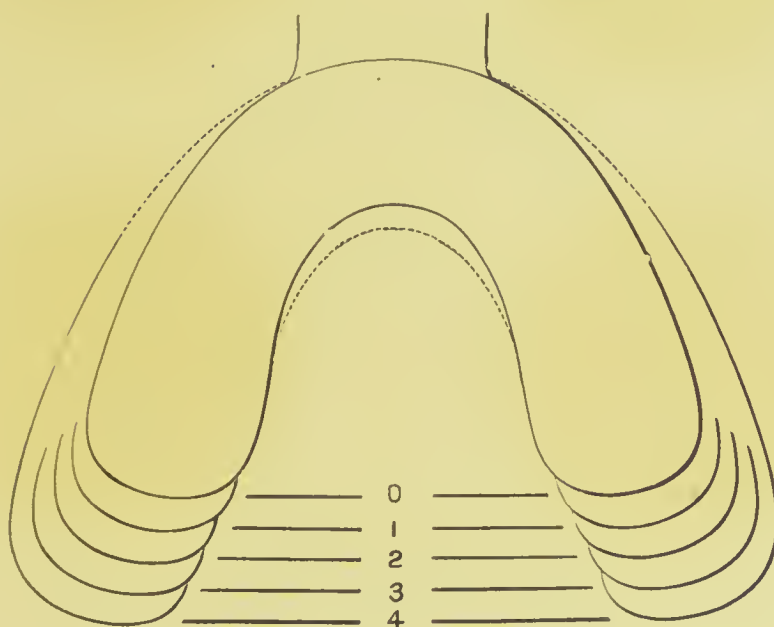
Form C Lower, similar to C Upper, only with bent ends for Lower.

| | | s. | d. |
|---|------|----|----|
| Either Form, Sizes 0-4, in Britannia Metal | each | 1 | 6 |
| „ „ „ 0-4, in German Silver, Nickel-plated | „ | 1 | 6 |

LOWER IMPRESSION TRAY.—FORM E.



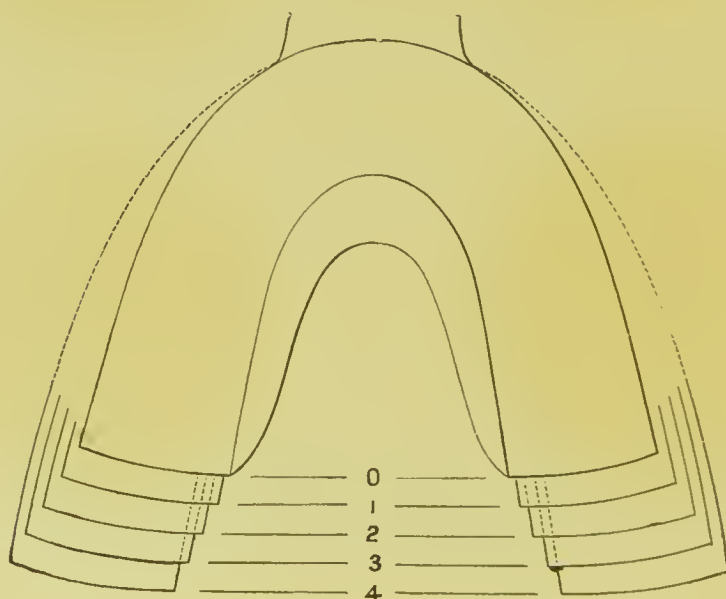
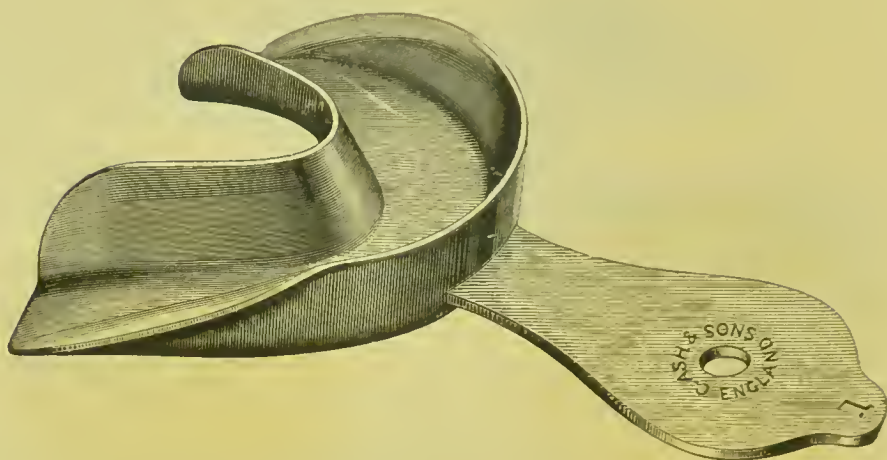
Depth of Tray, $\frac{3}{8}$ inch.



| | | s. | d. |
|---|------|----|----|
| In Britannia Metal, Sizes 0-4 | each | 1 | 6 |
| In German Silver „ 0-4, Nickel-plated | „ | 1 | 6 |
| Form EVS Lower— | | | |
| Very shallow, for edentulous cases. | | | |
| Made in 3 sizes, 0-2, in German Silver, Nickel-plated | „ | 1 | 9 |

LOWER IMPRESSION TRAYS.

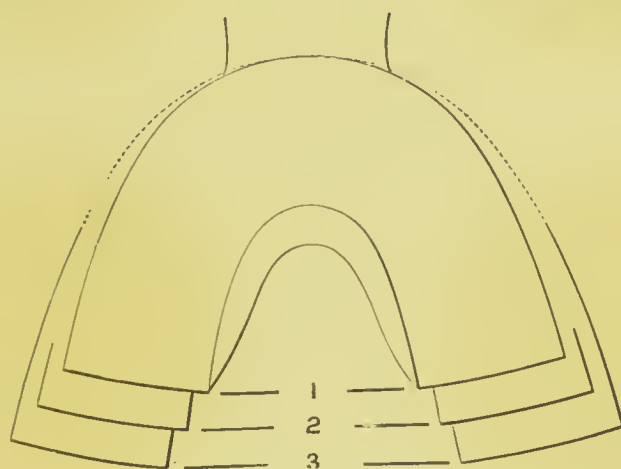
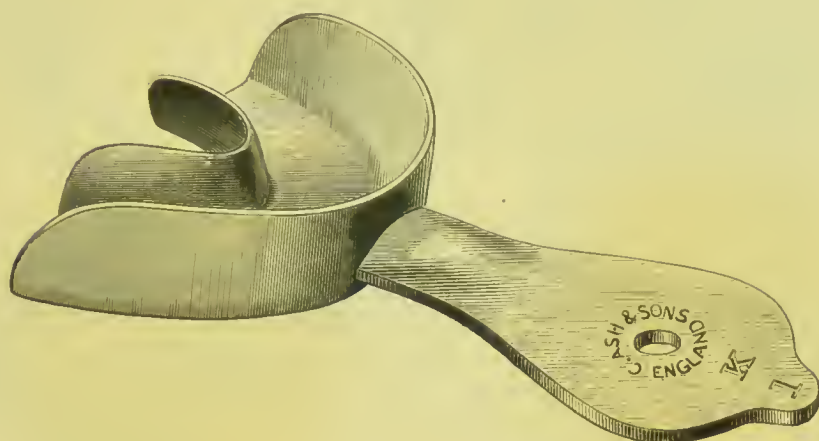
(MR. A. H. FAREBROTHER'S.)



| | s. | d. |
|--|------|-----|
| In German Silver, Sizes 0-4, Nickel-plated | each | 1 9 |
| Form F , with well in front, for use when the molars and
bicuspid are missing. | | |
| In Britannia Metal. | „ | 2 0 |

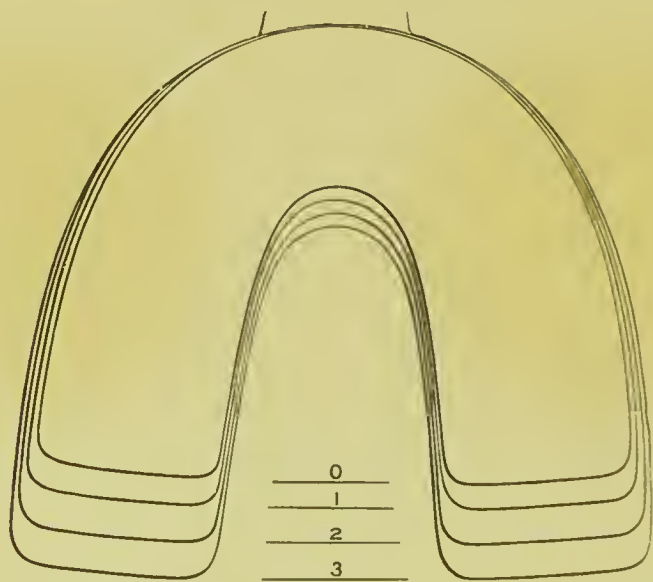
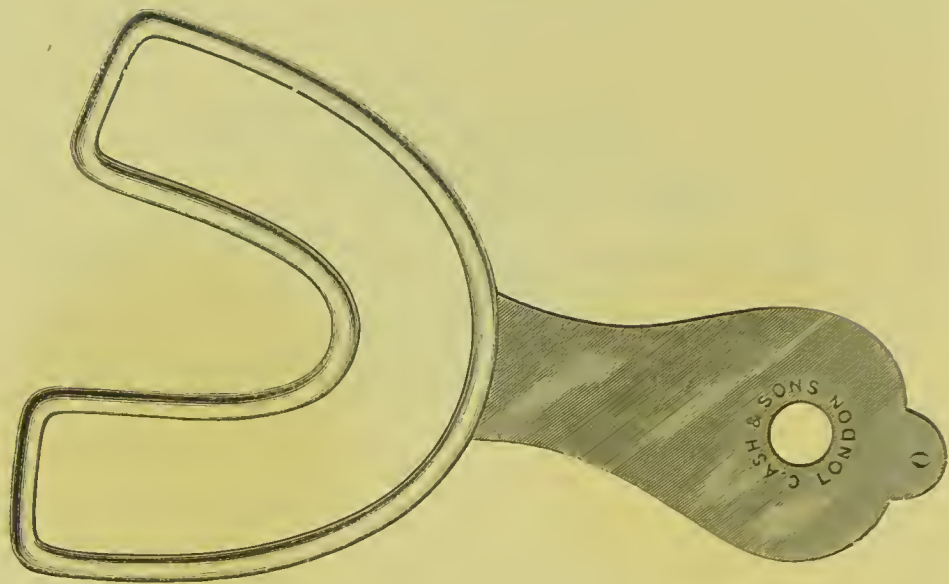
IMPRESSION TRAY.—FORM K.

FOR UPPER AND LOWER FRONT PIECES, AND FOR REGULATION CASES.



| | | s. | d. |
|--|------|----|----|
| In Britannia Metal, Sizes 1, 2, 3 | each | 1 | 3 |
| In German Silver, „ 1, 2, 3, Nickel-plated | „ | 1 | 6 |
| Form Kw. In German Silver, Sizes 1, 2, 3, Nickel-plated | „ | 1 | 9 |
| „ G, Upper and Lower, with the front part of bottom cut away, for use when the front teeth are standing. | | | |
| In Britannia Metal, Sizes 0-4 | „ | 2 | 0 |
| In German Silver, „ 0-4 | „ | 1 | 6 |
| Form J Upper, with narrow palate and turned up ends. | | | |
| In Britannia Metal, Sizes 0-4 | „ | 2 | 0 |
| In German Silver, „ 0-3, Nickel-plated | „ | 1 | 9 |

BITE FRAME.



| | | | |
|--|------|----|----|
| In German Silver, Sizes 0-3, Nickel-plated | each | s. | d. |
| Upper Impression Tray— | | 1 | 6 |
| Form V, with well in front. | | | |
| In German Silver, Sizes 0-3, Nickel-plated | „ | 1 | 9 |

IMPRESSION TRAYS.



For Upper and Lower
Side Pieces.

For Upper and Lower
Three-quarter Pieces.

The above Trays are all made in Sizes 0, 1, 2, 3 and 4.

PRICES:

| | | s. | d. |
|--|------|----|----|
| Form L and M in Britannia Metal | each | 1 | 3 |
| „ L „ M in German Silver, Nickel-plated | „ | 1 | 6 |
| „ N, right and left, in Britannia Metal | „ | 1 | 6 |
| „ N, „ „ „ in German Silver, Nickel-plated | „ | 1 | 6 |

IMPRESSION TRAY FOR CROWN WORK.

(MR. GILBERT WALKER'S.)

| | | s. | d. |
|---|------|----|----|
| In German Silver, Nickel-plated | each | 3 | 6 |

DOWEL CROWN OUTFIT.

(MR. R. P. LENNOX'S.)

| | | s. | d. |
|--|--|----|----|
| Price, Outfit Complete, with Tray. | | 8 | 0 |

LENNOX'S IMPRESSION CAPS,

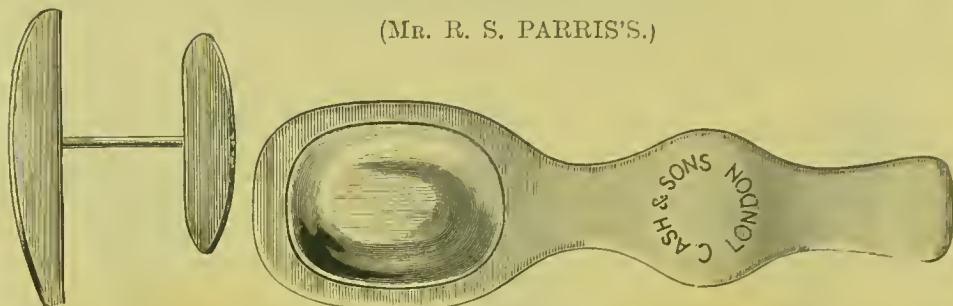
For taking impressions where the teeth lean towards each other.

Supplied in pairs for Molars and for Bicuspids.

| | | s. | d. |
|--------------------------------|--|----|----|
| Price, per two pairs | | 4 | 6 |

CROWN TRAY AND CROWN ARTICULATOR.

(MR. R. S. PARRIS'S.)



Side View.

FIG. 1.—Tray, full size.

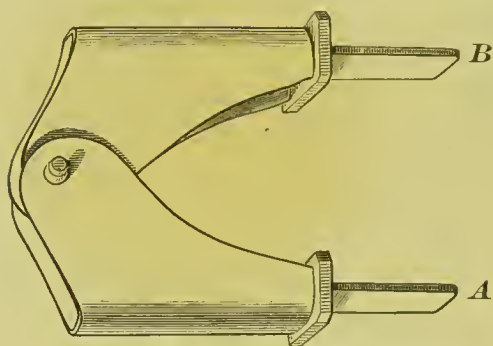


FIG. 2.—Articulator, two-thirds size.

PRICES:

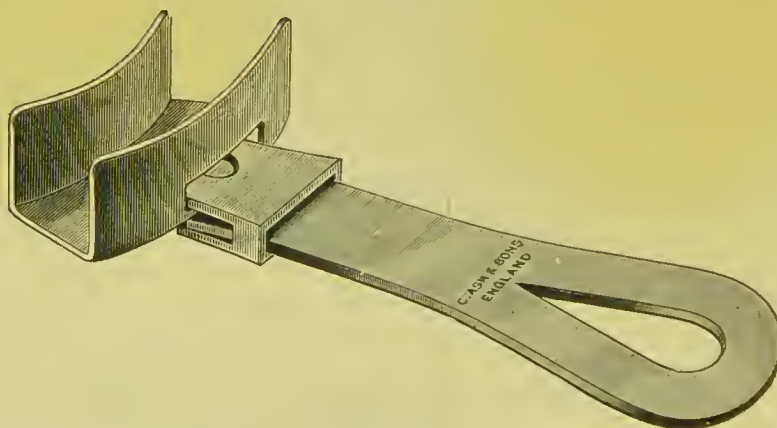
Fig. 1, Crown Tray, Nickel-plated s. d.
1 9

Fig. 2, Articulator, Nickel-plated s. d.
4 0

ADJUSTABLE IMPRESSION TRAY.

FOR CROWN AND BRIDGE WORK.

(DR. STOLLEY'S.)



FULL SIZE.

As shown by the illustration, the Tray can be fixed in three different positions—front, right, or left—by means of the locking slide on the handle.

In German Silver, Nickel-plated each s. d.
2 6

NITROUS OXIDE GAS.

(COXETER'S, CLARKSON'S, AND SPURGE'S.)

In thoroughly cleansed, reliable, annealed Steel and Iron Cylinders, which are most carefully tested under very high pressure to ensure absolute safety in transit and in handling. See Professor Goodman's Paper on "The Strength of High-Pressure Gas Cylinders" in the Journal of the British Dental Association for August, 1900.

GAS CYLINDER.



A. Key for releasing the Gas. B. Tap of Gas Cylinder.
C. Male Screw on Cylinder, to which the union of the Cattlin's Bag is attached.

STEEL OR IRON CYLINDERS.

| | Cylinder. | | | Gas. | | Complete. | | |
|-----------------------------|-----------|----|----|------|----|-----------|----|----|
| | £ | s. | d. | s. | d. | £ | s. | d. |
| 25-gallon size | 1 | 0 | 0 | 1 | 6 | 1 | 1 | 6 |
| 50 " | 1 | 3 | 0 | 2 | 9 | 1 | 5 | 9 |
| 100 " | 1 | 4 | 6 | 5 | 6 | 1 | 10 | 0 |
| 200 " | 1 | 15 | 0 | 11 | 0 | 2 | 6 | 0 |
| 300 " | 1 | 17 | 6 | 16 | 6 | 2 | 14 | 0 |
| 500 " | 2 | 10 | 0 | 25 | 0 | 3 | 15 | 0 |

Steel or Iron Cylinders refilled at the prices here noted for the Gas. When the Gas in 25, 50, 100, or 200-gallon size Cylinders that are refilled at one time amounts to 500 gallons or more, it is charged at the rate of 5s. per 100 gallons.

NOTE.

We have sometimes been asked if Nitrous Oxide Gas deteriorates with age. A reference to some of the old Journals will show that this question has been discussed again and again and decided in the negative.

OXYGEN GAS.

FOR USE IN CONJUNCTION WITH NITROUS OXIDE.

A 100-gallon size Nitrous Oxide Cylinder holds about 30 gallons of Oxygen. Cylinders are refilled at 2s. 6d. each.

| | Cylinder. | | | Oxygen. | | Complete. | | |
|------------------|-----------|----|----|---------|----|-----------|----|----|
| | £ | s. | d. | s. | d. | £ | s. | d. |
| Prices | 1 | 4 | 6 | 2 | 6 | 1 | 7 | 0 |

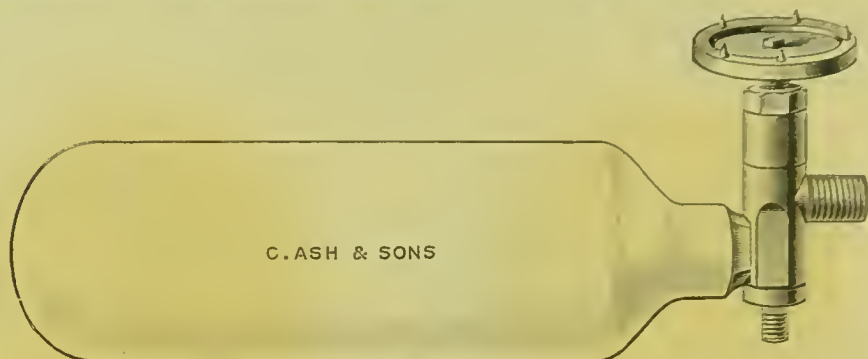
NITROUS OXIDE GAS—*continued.*

SPURGE'S ANGLE GAS CYLINDERS.

MADE OF STEEL, AND MOST CAREFULLY ANNEALED.

Spurge's Angle Cylinders for Nitrous Oxide Gas, or for Oxygen, are recommended with the fullest confidence.

They are favoured by the most eminent Anæsthetists, who claim that this form of Cylinder renders the Gas less liable to freeze in the valve, and thus hamper the administration of the anæsthetic, than other kinds of Gas Cylinders.

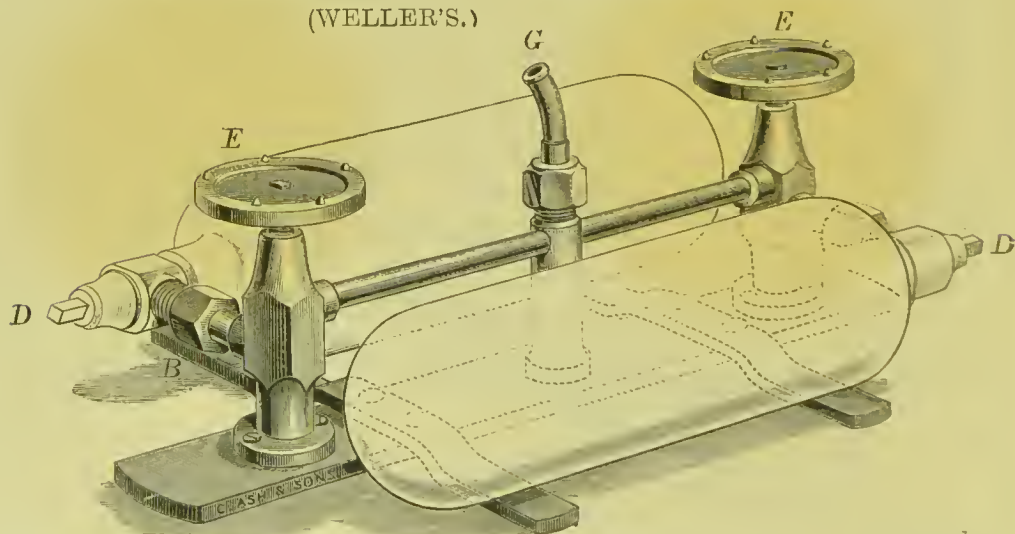


| | Cylinder. | Gas. | Complete. |
|--------------------------|-----------|-------|-----------|
| | £ s. d. | s. d. | £ s. d. |
| 25-gallon size | 1 3 0 | 1 6 | 1 4 6 |
| 50 " | 1 5 0 | 2 9 | 1 7 9 |
| 100 " | 1 7 6 | 5 6 | 1 13 0 |
| 200 " | 1 17 6 | 11 0 | 2 8 6 |

Cylinders refilled at the prices here noted for the Gas.

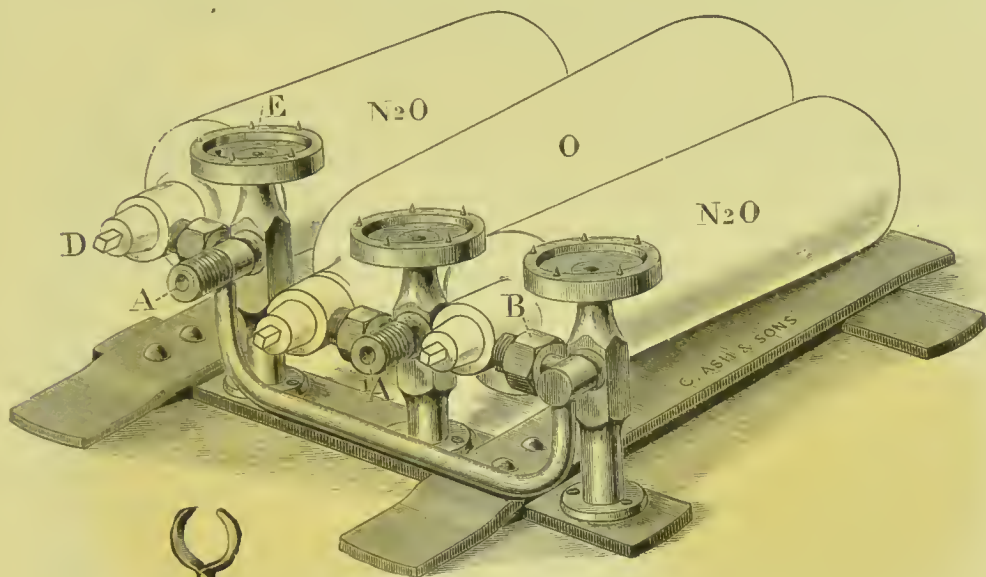
TWIN GAS CYLINDER STAND.

(WELLER'S.)



| | £ s. d. |
|--|-------------|
| Stand, with two Foot Keys <i>E</i> , and a Spanner, but minus Union <i>G</i> | 1 10 0 |
| The same, Nickel-plated | 1 16 0 |
| The same with Pillar for holding Facepiece, etc. | 2 2 0 |
| Ditto ditto Nickel-plated | 2 18 0 |
| Union <i>G</i> | extra 0 3 6 |
| Spanner | 0 2 6 |

WELLER'S TRIPLE GAS CYLINDER STAND. FOR TWO NITROUS OXIDE AND ONE OXYGEN CYLINDERS.



| | | | |
|--|---|----|----|
| Stand, with three Foot Keys, but without | £ | s. | d. |
| the Gas Cylinders | 2 | 10 | 0 |
| The same with Pillar and Spirals | 3 | 3 | 0 |

SPURGE'S STANDS

FOR ANGLE CYLINDERS.—See p. 206.

Of the various Stands shown in this List this is the only one that will take Spurge's Angle Gas Cylinders. The illustration so clearly shows how the Cylinders are arranged that description is unnecessary.



Stand for Angle Cylinders.

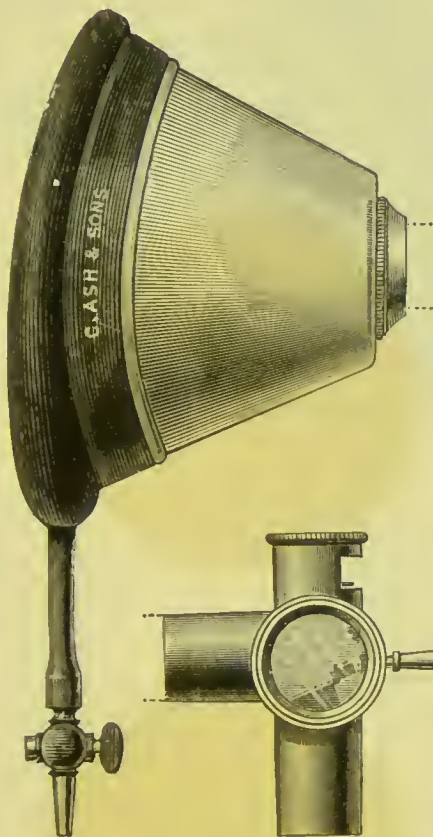
| | | | |
|----------------------------------|---|----|----|
| Twin Stand, complete with | £ | s. | d. |
| Double Union, two Fly | | | |
| Nuts, and Circular Key | 1 | 5 | 0 |
| The same with Pillar and | | | |
| Hooks | 1 | 17 | 6 |
| Triple Stand for two Nitrous | | | |
| Oxide and one Oxygen | | | |
| Cylinders | 1 | 17 | 6 |
| The same with Pillar and | | | |
| Hooks | 2 | 15 | 0 |

In ordering the above, please state what size Cylinders the Stand is required for.

GAS CYLINDER STANDS, ATTACH- MENTS, Etc.

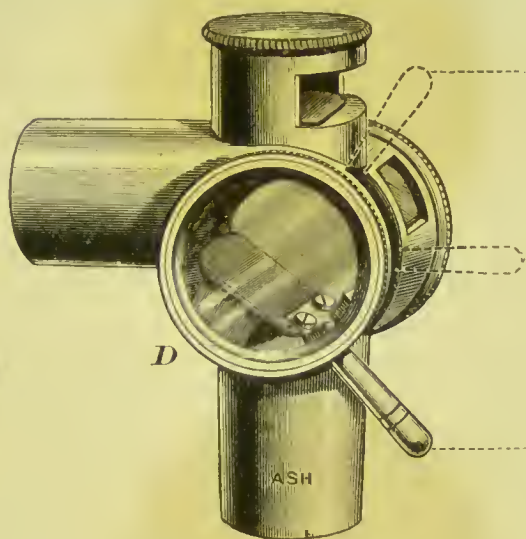
| | | | |
|---|---|----|----|
| Weller's Gas Regulator (Patented), for controlling the flow of
gases from the cylinders each | £ | s. | d. |
| | 1 | 15 | 0 |
| Spurge's Key for Cylinders, Plain Steel, japanned „ | 0 | 2 | 6 |
| „ „ „ Nickel-plated „ | 0 | 3 | 6 |
| Ash's Combined Gas Cylinder and Pedal Attachment, with | | | |
| Cylinder containing 100 gallons of gas | 1 | 17 | 6 |
| „ „ 200 „ „ | 2 | 13 | 6 |
| „ „ 500 „ „ | 4 | 2 | 6 |
| „ „ about 30 gallons Oxygen | 1 | 14 | 6 |
| Union to which the tubing of Cattlin's Bag is attached extra | 0 | 3 | 6 |
| Twin Stand (Weller's) with detachable clamps, which overcomes
the trouble of worn screws on the cylinders. | | | |
| For two 100-gallon size Cylinders, with Spanner | 2 | 10 | 0 |
| „ 50 „ „ „ | 2 | 10 | 0 |
| Either of the above with Pillar and Spirals and Spanner | 3 | 4 | 0 |
| Clarkson's Crescent Triple Stand for two Nitrous Oxide
Cylinders and one Oxygen, complete with three Foot
Keys and one Spanner | | | |
| | 2 | 5 | 0 |
| Portable Pedal Attachment (Mr. P. Edgelow's), complete with
two Foot Keys and one Spanner | | | |
| | 1 | 10 | 0 |
| Clarkson's Pedal Attachment for 50, 100, 200, and 500-gallon
size Cylinders | | | |
| | 1 | 1 | 0 |
| Spurge's Pedal Attachment, with Key and Spanner | | | |
| | 1 | 1 | 0 |
| „ „ „ Nickel-plated, with Key and Spanner | 1 | 5 | 0 |
| „ Triple Stand, for two 100-gallon size Nitrous Oxide
and one 30-gallon size Oxygen Cylinders, fitted with three
Pedal Valves, each of which gives independent control. | 4 | 10 | 0 |
| The same with Pillar and Spirals | 5 | 2 | 6 |
| Napier's Stand for two 50 or two 100-gallon size Cylinders | | | |
| | 1 | 10 | 0 |
| The same with Pillar and Spiral | 2 | 0 | 0 |
| Double Union separately | 0 | 8 | 6 |
| Long Gas Key | 0 | 5 | 6 |
| Spurge's Stand for 500-gallon size Cylinders | | | |
| | 1 | 10 | 0 |
| „ Twin Stand (War Office Pattern) | 2 | 0 | 0 |
| The same with Pillar and Hooks | 2 | 10 | 0 |

CELLULOID FACEPIECE AND WELLER'S ASEPTIC THREE-WAY STOPCOCK.



Facepiece and Stopcock.

The chief feature about this Facepiece is that it is roomy enough to go over a Mason's Gag when it is fixed in the mouth.



Enlarged view of Stopcock.

The inside of the Stopcock can be readily and thoroughly cleansed by removing the rim *D* on each side.

| | £ | s. | d. |
|---|---|----|----|
| Celluloid Facepiece | 0 | 13 | 6 |
| Weller's Aseptic Three-way Stopcock | 1 | 5 | 0 |

RUBBER APRONS.

Large Rubber Apron, as used at the Royal Dental Hospital of London to prevent the garments of patients being soiled during the administration of anæsthetics. The Apron is about 5 feet long by 43 inches wide, and is provided with weighted flaps which hang over the shoulders to keep it in position; colour, black outside, light check inside

s. d.
12 0

Rubber Apron similar to the above, Mr. Apperloy's pattern, with pocket

12 0

Rubber Apron, 34 inches long by 33 inches wide, in red, black, or white rubber

9 0

Washable Rubber Apron, brown holland colour, 32 inches long by 33 inches wide

3 9

CELLULOID FACEPIECES.

FIG. 1.

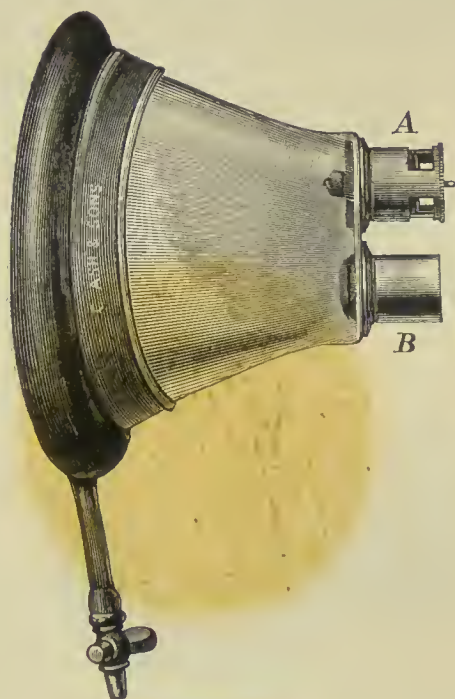
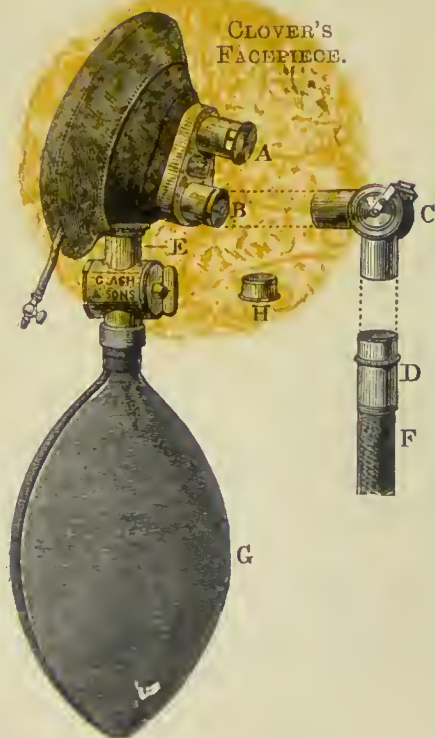
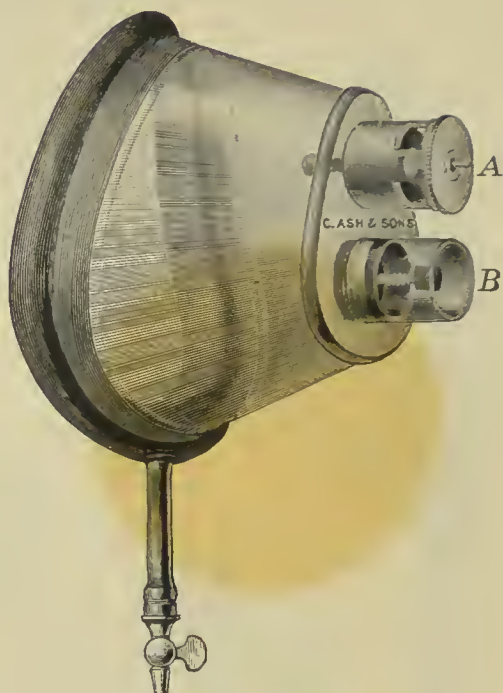


FIG. 3.

**PRICES:**

| | s. | d. |
|---|------|------|
| Figs. 1 and 3 with Valve | each | 22 6 |
| Either kind with Mount for Supplemental Bag | | 25 0 |

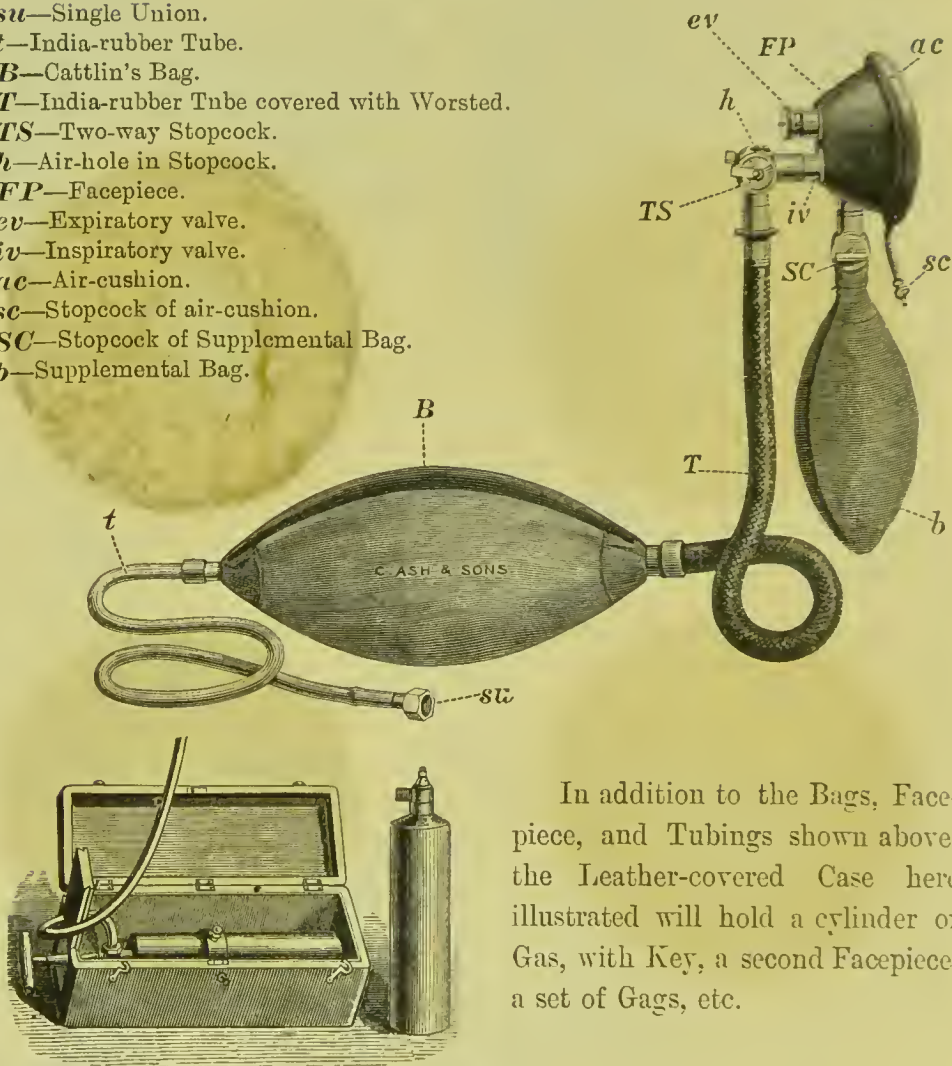
FACEPIECE, Etc.

| | | |
|-----------------------------------|------|------|
| Clover's, with Mount E, Large, | s. | d. |
| Medium, or Small | each | 20 0 |
| Clover's, without Mount E, | | |
| Large, Medium, or Small | each | 17 6 |
| Two-way Stopcock C, lacquered | | 7 6 |
| " " Nickel-plated | | 9 0 |
| Mount D, lacquered | | 1 6 |
| " " Nickel-plated | | 1 9 |
| Supplemental Bag G, with Stopcock | | 14 0 |

PORTABLE GAS OUTFITS, FOR THE ANÆSTHETIST WHEN VISITING.

DESCRIPTION :

su—Single Union.
t—India-rubber Tube.
B—Cattlin's Bag.
T—India-rubber Tube covered with Worsted.
TS—Two-way Stopcock.
h—Air-hole in Stopcock.
FP—Facepiece.
ev—Expiratory valve.
iv—Inspiratory valve.
ac—Air-cushion.
sc—Stopcock of air-cushion.
SC—Stopcock of Supplemental Bag.
b—Supplemental Bag.



In addition to the Bags, Facepiece, and Tubings shown above, the Leather-covered Case here illustrated will hold a cylinder of Gas, with Key, a second Facepiece, a set of Gags, etc.

NOTES.

"One great advantage of the Supplemental Bag is that while it continues to empty itself and refill, there can be no doubt that respiration is being properly performed; it is an unfailing index of the state of this all-important function."—A. S. Underwood.

Mr. Braine says: "It may be urged against this method that the patient re-breathes the carbonic acid of his own expired air, and this is true; but from the length of time I have employed this plan, and from never having seen any deleterious results from it, I do not attach any importance to the objection."

PORTABLE GAS OUTFITS—*continued.*

PRICES:

Outfit, consisting of—

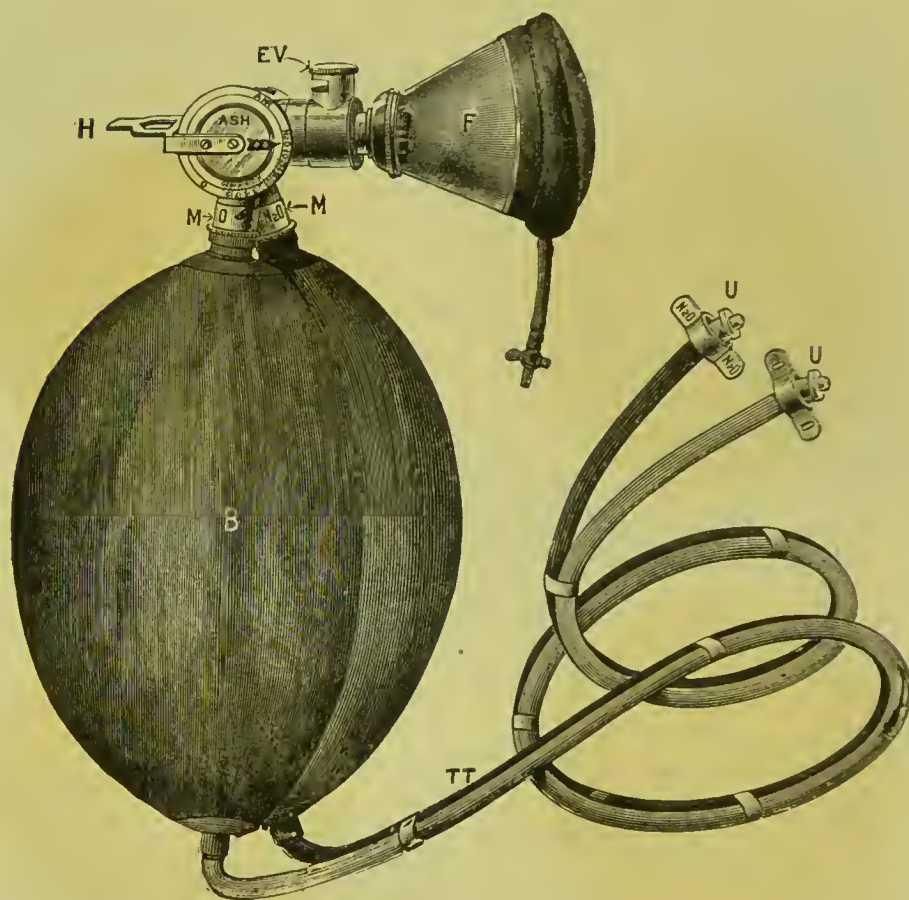
| | | | |
|--|-------|----|----|
| Wrought-Iron or Steel Cylinder, containing 100 gallons of | £ | s. | d. |
| Coxeter's, Clarkson's, or Spurge's Gas | 1 | 10 | 0 |
| Gas Key | 0 | 2 | 6 |
| Spanner for attaching Union to gas cylinder | 0 | 2 | 6 |
| Cattlin's Bag, to hold about 3 gallons, with Brass Mount and | | | |
| Union | 1 | 6 | 0 |
| Two Facepieces, large, medium, or small | 2 | 0 | 0 |
| Supplemental Bag, with Stopcock | 0 | 14 | 0 |
| Two-way Stopcock to connect Facepiece and Cattlin's Bag . . | 0 | 7 | 6 |
| Set of 3 simple Gags | 0 | 3 | 9 |
| Leather-covered Case ($16\frac{3}{4}$ by $6\frac{3}{4}$ inches), with Lock and Key, | | | |
| to hold all the above Apparatus | 1 | 0 | 0 |
| | <hr/> | | |
| | £7 | 6 | 3 |
| | <hr/> | | |

Alternative Outfit, consisting of—

| | | | |
|---|-------|----|----|
| Wrought-Iron or Steel Cylinder, containing 50 gallons of | £ | s. | d. |
| Coxeter's, Clarkson's, or Spurge's Gas | 1 | 5 | 9 |
| Gas Key | 0 | 2 | 6 |
| Clarkson's Pedal Attachment for a single cylinder, with | | | |
| Spanner | 1 | 1 | 0 |
| Cattlin's Bag, to hold about 3 gallons, with Brass Mount, | | | |
| Union, and Gas Quieter | 1 | 14 | 0 |
| Two-way Stopcock | 0 | 7 | 6 |
| Two Facepieces, minus Mount E, large, medium, or small . . | 1 | 15 | 0 |
| Dr. Hewitt's Gag, medium size, in Aluminium, with lead pads . | 0 | 3 | 6 |
| Mr. Braine's Tongue Forceps | 0 | 9 | 0 |
| Leather Hand-Bag, with Lock and Key, made of the best | | | |
| Cow-hide, to hold the above Outfit | 1 | 4 | 0 |
| | <hr/> | | |
| | £8 | 2 | 3 |
| | <hr/> | | |

WELLER'S APPARATUS

FOR THE ADMINISTRATION OF NITROUS OXIDE GAS AND
OXYGEN.

*DESCRIPTION:*

- | | |
|---|----------------------|
| F—Facepiece. | EV—Expiratory Valve. |
| H—Regulating Handle. | B—Twin Bag. |
| MM—Mounts. | TT—Tubings. |
| UU—Unions for attaching to Gas Cylinders. | |

NOTE.—The union marked O on the red tubing is connected to the Oxygen cylinder, and the other union to the Nitrous Oxide cylinder.

PRICES:

| | | | |
|--|---|----|----|
| Apparatus complete as illustrated, with Black India-rubber | £ | s. | d. |
| Twin Bag | 4 | 5 | 0 |
| The same, with Black Silk Twin Bag | 5 | 0 | 0 |

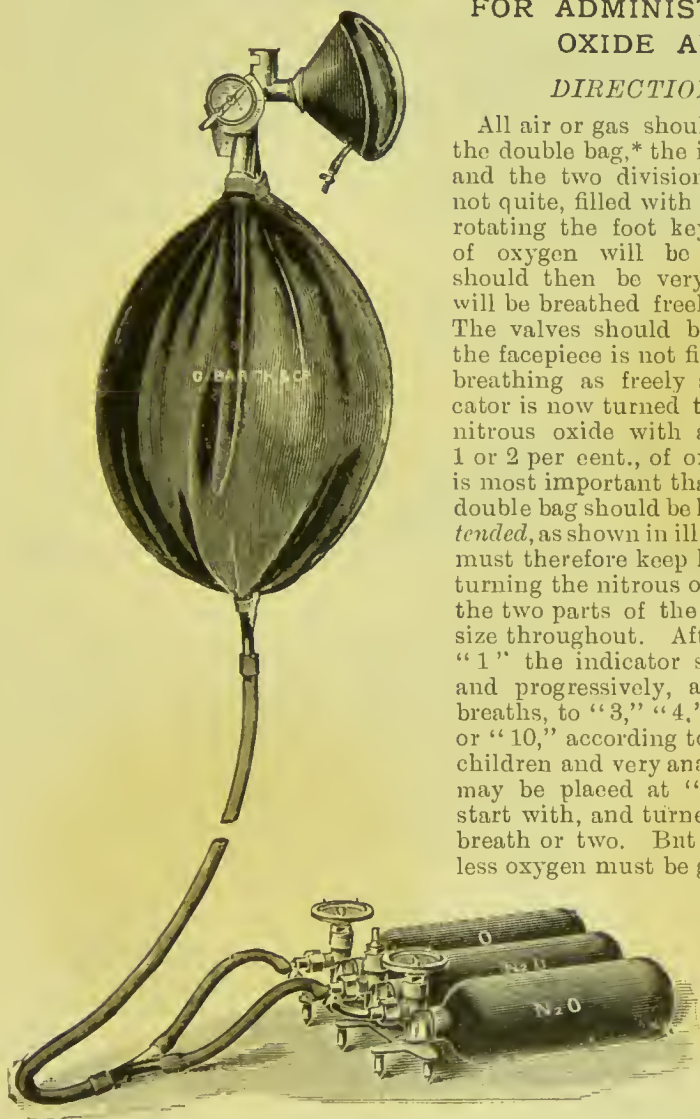
HEWITT'S SIMPLIFIED PORTABLE APPARATUS

FOR ADMINISTERING NITROUS
OXIDE AND OXYGEN.

DIRECTIONS FOR USE:

All air or gas should first be pressed out of the double bag,* the indicator turned to "Air," and the two divisions of the bag nearly, but not quite, filled with their respective gases, by rotating the foot keys. No further addition of oxygen will be needed. The facepiece should then be very accurately applied. Air will be breathed freely through the apparatus. The valves should be heard to act, otherwise the facepiece is not fitting, or the patient is not breathing as freely as he should. The indicator is now turned to "1," which means that nitrous oxide with a small quantity, possibly 1 or 2 per cent., of oxygen will be inhaled. It is most important that the two divisions of the double bag should be kept *equally and partly distended*, as shown in illustration. The Anæsthetist must therefore keep his foot almost constantly turning the nitrous oxide foot key in order that the two parts of the bag may remain equal in size throughout. After two or three breaths at "1" the indicator should be turned to "2," and progressively, after every two or three breaths, to "3," "4," "5," "6," "7," "8," "9," or "10," according to the type of patient. In children and very anæmic persons the indicator may be placed at "2," "3," or even "4," to start with, and turned to a fresh number every breath or two. But in adults in good health less oxygen must be given.

* It is not advisable to press the bags too tightly, as the suction caused by the sides adhering together has a tendency to draw the valves in the delivery tubes through to the wrong side.



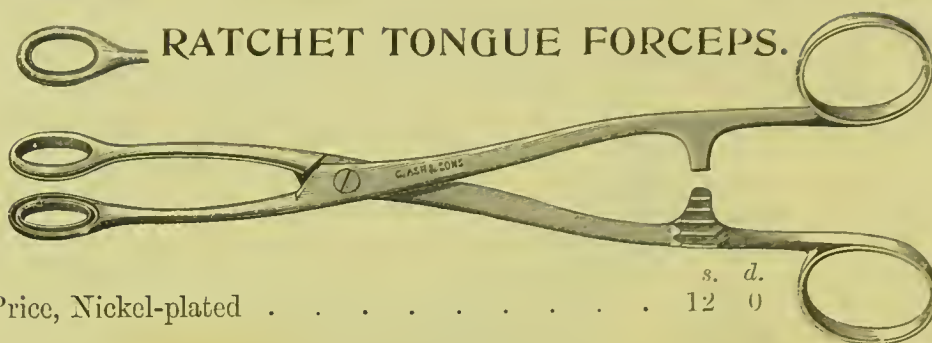
Apparatus complete.

PRICE:

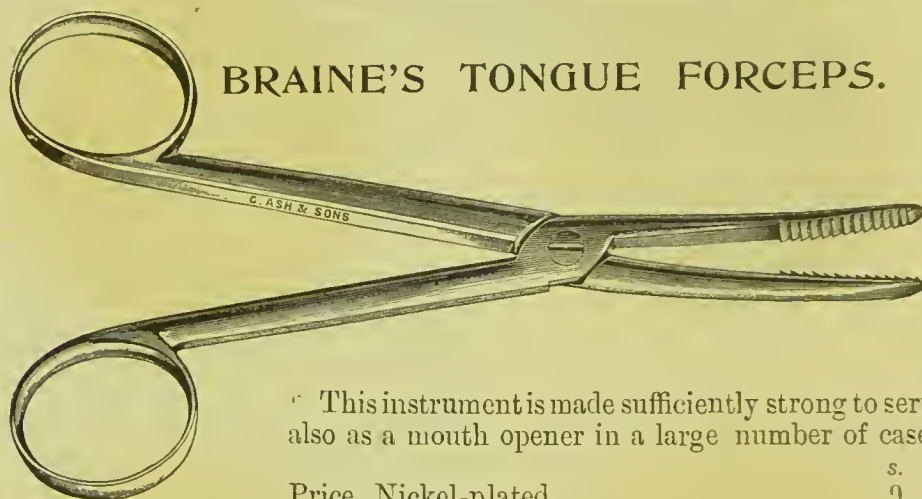
| | | | |
|---|-----|----|----|
| Apparatus consisting of Facepiece, Stopcock with Valves, | | | |
| Mixing Chamber and Indicator, Double Bag, India-rubber | £ | s. | d. |
| Tubing, Unions for attaching to the Gas Cylinder Stand . | 4 | 10 | 6 |
| Two 100-gallon Cylinders Nitrous Oxide Gas, one 30-gallon | | | |
| Cylinder Oxygen, Triple Stand, and Accessories . . . | 6 | 19 | 6 |
| Complete | £11 | 10 | 0 |



RATCHET TONGUE FORCEPS.



Price, Nickel-plated s. d.
12 0

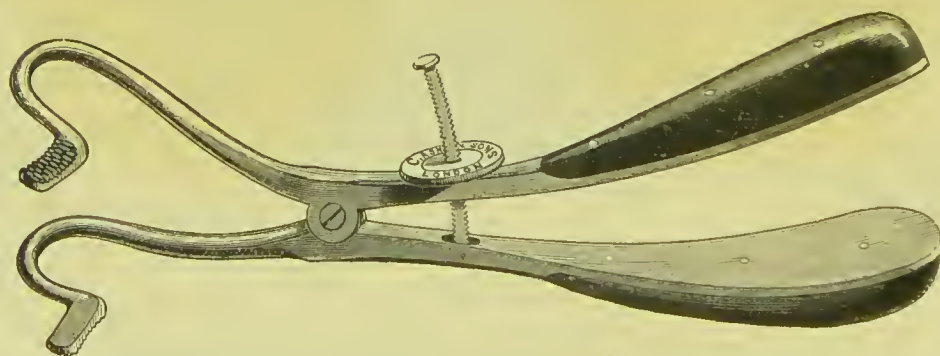


BRAINE'S TONGUE FORCEPS.

This instrument is made sufficiently strong to serve also as a mouth opener in a large number of cases.

Price, Nickel-plated s. d.
9 0

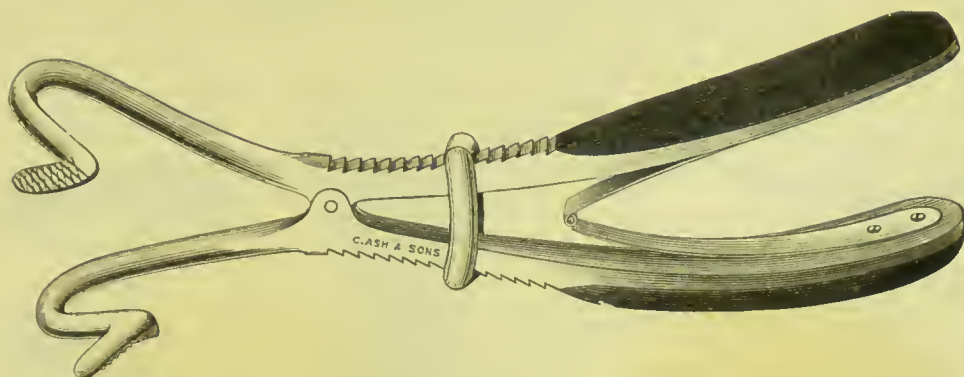
MASON'S GAG.



Made with long Ebony handles as illustrated, all bright parts Nickel-plated, and supplied with India-rubber pads for patients to bite upon.

Price, with Ackland's Improved Jaws s. d.
16 6

FERGUSSON'S GAG.



Price, Nickel-plated, with Ackland's Improved Jaws and s. d.
Ebony Handles 18 0

Mason's and Fergusson's Gags are also supplied in All-Metal handles to admit of thorough sterilisation by immersion in a suitable antiseptic fluid. They are of the highest quality, handsome in appearance, and heavily nickel-plated.

Price each s. d. 25 0

| | | |
|---|------|-------|
| Maunder's Screw Gag, made of Boxwood | each | s. d. |
| | | 2 3 |
| Mouth Opener, in Steel, with screw and movable jaws,
Nickel-plated | „ | 12 6 |
| Mouth Opener, Simple, in Boxwood | „ | 0 6 |

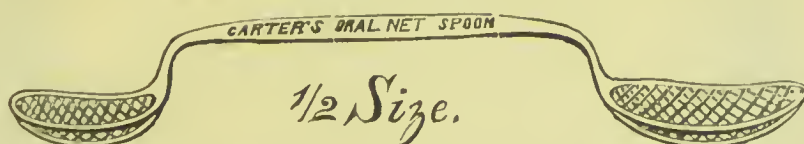
ASEPTIC SPONGE HOLDERS, FOR HAND, WITH SLIDING RING.



| | | |
|--|------|-------|
| Straight or Curved, Nickel-plated throughout, as illustrated | each | s. d. |
| | | 2 0 |
| Straight, with three Prongs and Ebony handle | „ | 3 6 |

CARTER'S ORAL NET SPOON.

(WITH IMPROVEMENT SUGGESTED BY DR. DUDLEY W. BUXTON.)



FOR USE DURING EXTRACTIONS UNDER ANÆSTHETICS.

| | |
|--------------------------------|-------|
| Price, Nickel-plated | s. d. |
| | 6 6 |

GAGS, OR MOUTH PROPS.

FIG. 2.

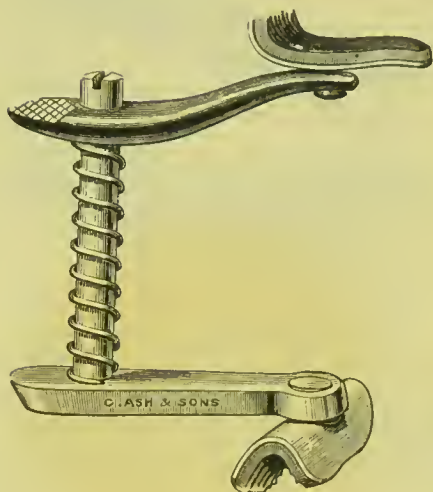


FIG. 9.



FIG. 11.

*PRICES:*

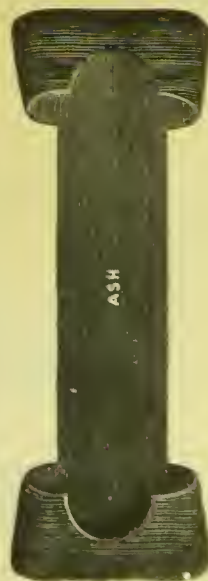
| | | s. | d. |
|--|------|----|----|
| Fig. 2. Hinged Gag (Mr. Brunton's), Steel, Nickel-plated | each | 10 | 6 |
| „ 9. Simple Gag, in Vulcanite, long, medium, or short | „ | 1 | 3 |
| „ 11. Fixed Gag (Dr. Hewitt's), in Aluminium, made in five sizes, with pads as illustrated | „ | 3 | 0 |
| The same with Lead pads. | „ | 3 | 6 |

**CONTINUOUS INDIA-
RUBBER PADS****FOR DR. HEWITT'S GAGS.**

Quickly applied, readily sterilised, and cheaply renewed. The large Pad is intended for Gags Nos. 1 and 2, and the small for Gags Nos. 3, 4 and 5.



SMALL.



LARGE.

Price, either size . each s. d.
0 3

THE PERFECT MASK.

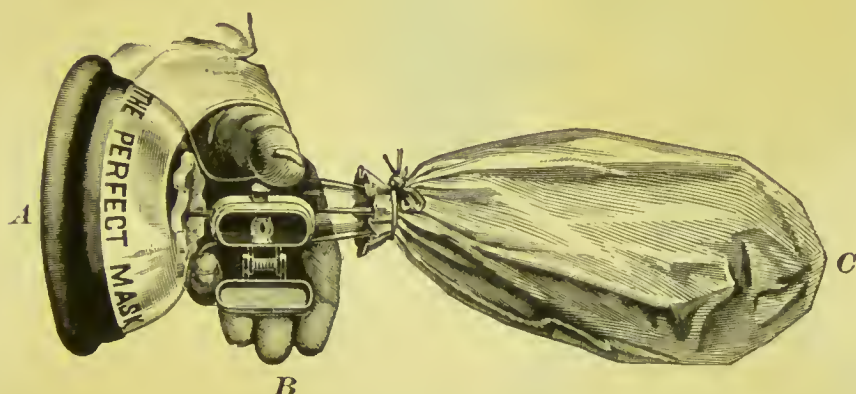
(PATENTED.)

(Designed by FIELD ROBINSON, D.D.S., Univ. of Penn.)

Aseptic, Transparent, Simple in Construction,
Readily Sterilised, Reliable, Economical, and
Insoluble to Anæsthetics of the Ethyl-Methyl Class.

SUITABLE FOR USE IN ADMINISTERING

Somnoform, Ether, Ethyl Chloride, Chloroform,
Ethyl-Methyl Mixtures, also
Nitrous Oxide Gas, and
Nitrous Oxide and Oxygen in combination.



Mask complete, with door of metal chamber open. *A.* Pneumatic India-rubber pad—commonly known as Facepiece pad. *B.* Metal chamber on side of glass frame. *C.* Sterilised bladder. (If preferred, an India-rubber bag can be used instead.)

General Directions sent with each Mask.

| | | | |
|--|---|----|----|
| Perfect Mask, complete in box, with two Facepiece Pads, one
India-rubber Bag or four Sterilised Bladders, and one box
of Aseptic Lint Diaphragms | £ | s. | d. |
| | 1 | 12 | 6 |
| The same with Mount, for use with Nitrous Oxide Gas, etc. | 1 | 15 | 0 |

SOMNOFORM.

(Dr. ROLLAND'S Formula.)

FOR GENERAL ANÆSTHESIA.

| | | |
|--|------------|-----|
| In boxes of six sealed tubes containing 3 or 5 cubic centimetres | s. | d. |
| per box | 3 | 6 |
| In bottle containing 60 c.e. | per bottle | 5 0 |
| Valve Stopper for bottles | 5 | 0 |

LOBJOIS' No. 1 INHALER.*(PATENTED.)*

Specially designed for taking the sealed tubes of

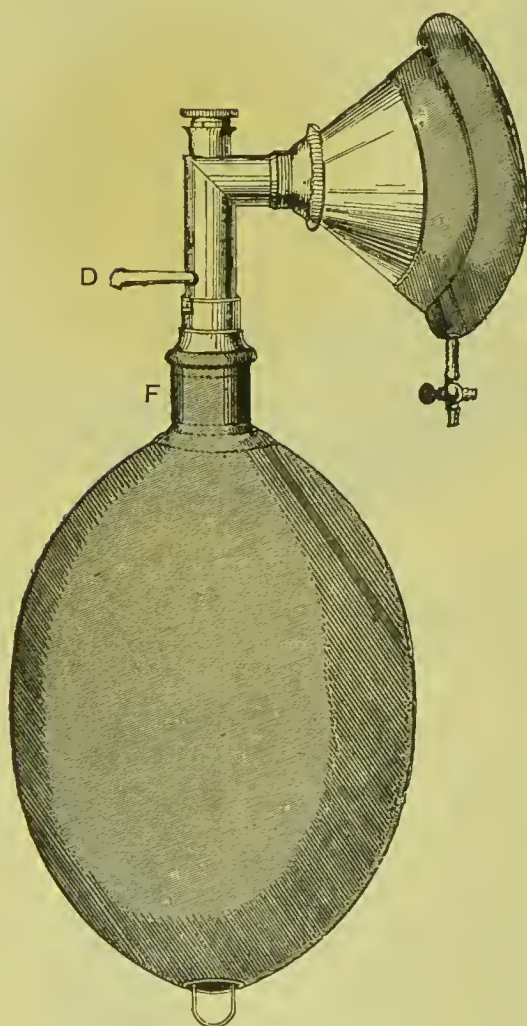
BENGUÉ'S PURE ETHYL CHLORIDE,

but it is also equally well adapted for use in administering any of the Anaesthetics of the

ETHYL OR ETHYL-METHYL CLASS,

although only Ethyl Chloride is referred to in the description of the Inhaler and its advantages.

This illustration shows the Inhaler complete, ready for use.

**ADVANTAGES:**

1. It holds the bulb of Ethyl Chloride containing the dose necessary for producing anaesthesia.

2. Additional Ethyl Chloride can be applied, if required, during the administration, without removing the Facepiece.

3. Air can be given and regulated according to the needs of the patient by means of the Air Valve D.

4. The Ethyl Chloride is so securely confined within the cage F that when the Facepiece is applied there is no waste, and all the Anaesthetic vapour is freely inhaled by the patient without discomfort or sense of suffocation.

5. The Inhaler is extremely portable.

6. It is simple in construction, and all its parts can be readily sterilised.

7. It is thoroughly well made, and moderate in price.

LOBJOIS' No. 1 INHALER.

| | | |
|---------------------------------------|----|----|
| | s. | d. |
| Price, complete in card box | 35 | 0 |

Circular on Ethyl Chloride, with directions for using the above, sent on application.

KÉLÈNÈ: PURE ETHYL CHLORIDE.

FOR LOCAL OR GENERAL ANÆSTHESIA.

A MOST RELIABLE LOCAL ANÆSTHETIC
FOR DENTAL EXTRACTIONS.

PRICES,

With straight or curved nozzles and Auto-
matic closing cap :

| | | s. | d. |
|--------------------------|----------------|----|----|
| 60-gramme size | per tube | 4 | 0 |
| Refilling same | „ | 3 | 0 |
| 30-gramme size | 3 tubes in box | 7 | 6 |
| 30 „ „ | 1 „ „ | 3 | 0 |
| 10 „ „ | 10 „ „ | 14 | 0 |
| 10 „ „ | 1 „ „ | 1 | 6 |

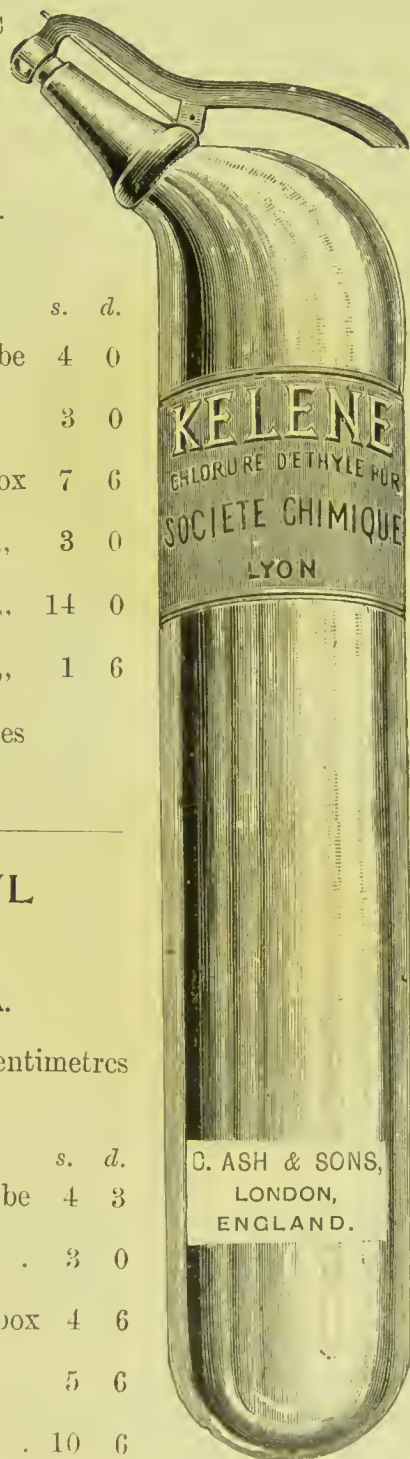
The 30-gramme and 10-gramme tubes
cannot be refilled.

KÉLÈNÈ: PURE ETHYL CHLORIDE.

FOR GENERAL ANÆSTHESIA.

In glass tubes, graduated in cubic centimetres
0-50, with straight or curved nozzles.

| | | s. | d. |
|---|----------|----|----|
| 60-gramme size. | per tube | 4 | 3 |
| Refilling same | | 3 | 0 |
| 12 sealed glass tubes containing 3 c.c. per box | | 4 | 6 |
| „ „ „ 5 c.c. „ | | 5 | 6 |
| Valveless Mask. | | 10 | 6 |



60-GRAMME SIZE.

BENGUÉ'S PURE ETHYL CHLORIDE.

FOR GENERAL ANÆSTHESIA.

| FOR GENERAL ANÆSTHESIA. | | <i>s.</i> | <i>d.</i> |
|--|--|-----------|-----------|
| Tube containing 50 c.c., minus Valve | | 2 | 6 |
| " " " with " | | 3 | 9 |
| Refilling same | | 3 | 0 |

Also in

Sealed glass tubes, as under, for use with Lobjois' Inhaler:

| | | |
|---------------------------------|---|---|
| Box containing 12 Tubes, 3 c.c. | 4 | 6 |
| " " " 5 c.c. | 5 | 6 |

BENGUÉ'S PURE ETHYL CHLORIDE.

FOR LOCAL ANÆSTHESIA.

| | | <i>s.</i> | <i>d.</i> |
|--|--------------|-----------|-----------|
| Glass Tubes, 30-gramme size, with Screw Caps | per tube | 2 | 6 |
| " " " | per box of 3 | 6 | 9 |

(These Tubes cannot be refilled.)

| | | |
|---|---|---|
| Glass Tube, 50-gramme size, with Automatic Cap | 3 | 9 |
| Refilling same | 2 | 9 |
| Metal Cylinder, 50-gramme size, with Valve Stopper | 4 | 0 |
| Refilling same | 2 | 9 |
| Metal Cylinder, 100-gramme size, with Valve Stopper | 6 | 9 |
| Refilling same | 5 | 6 |

BENGUÉ'S NARCOTILE.

FOR GENERAL ANÆSTHESIA.

PRICES, WITH DIRECTIONS FOR USE:

| PRICES, WITH DIRECTIONS FOR USE: | | s. | d. |
|---|--|----|----|
| Facepiece and Anæsthetic Cup complete, in cardboard box | | 25 | 6 |
| Narcotile Tube with Patent Valve Stopper, straight or curved neck | | 3 | 9 |
| Refilling same | | 3 | 0 |
| Anæsthetic Cup only, for fitting to existing Facepieces | | 5 | 0 |

BENGUÉ'S ANESTILE.

FOR LOCAL ANÆSTHESIA.

(REGISTERED.)

A Mixture of Pure Chloride of Ethyl and Chloride of Methyl.

| A Mixture of Pure Chloride of Ethyl and Chloride of Methyl. | | s. | d. |
|---|--|----|----|
| No. 4 Metal Cylinder full of Anestile | | 15 | 0 |
| Refilling same | | 6 | 6 |
| Refilling existing Cylinders: | | | |
| No. 1, with interchangeable jets, 120-gramme size | | 6 | 3 |
| No. 2, with straight or curved nozzles, 120-gramme size | | 6 | 3 |
| No. 3, with automatic stopper, 90-gramme size | | 4 | 4 |

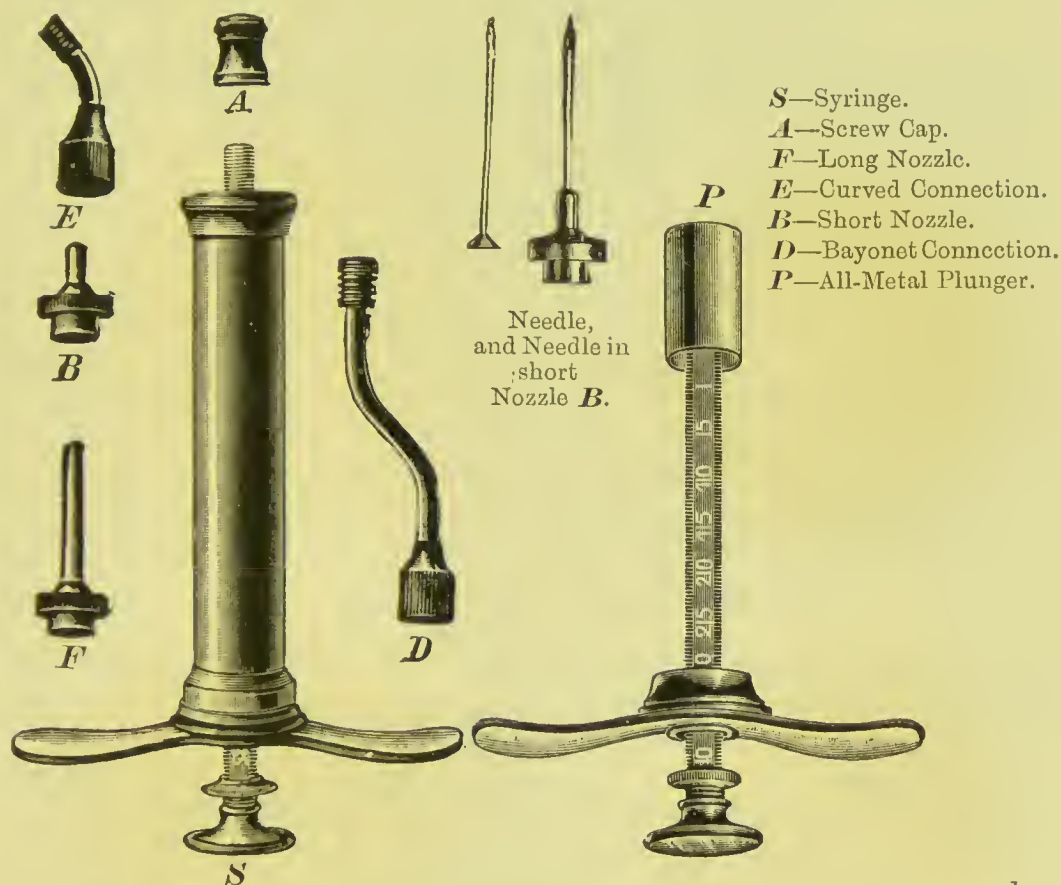
DUNCAN, FLOCKHART & CO.'S ABSOLUTE
ETHYL CHLORIDE.

FOR LOCAL OR GENERAL ANÆSTHESIA.

| FOR LOCAL OR GENERAL ANÆSTHESIA. | | s. | d. |
|--|-------|----|----|
| 60-c.c. Cylinders | each | 3 | 1 |
| Refilling same | | 3 | 0 |
| Patent Stopcocks, Local or General | each | 1 | 3 |
| The "Simplex" Inhaler, complete | | 32 | 0 |
| The same with gas tap | extra | 2 | 0 |

ALL-METAL ASEPTIC HYPODERMIC SYRINGES.

Made of metal throughout—metal barrel and metal plunger; can be boiled in any antiseptic like any other metal instrument, and thus kept in a perfectly aseptic condition.



- S*—Syringe.
A—Screw Cap.
F—Long Nozzle.
E—Curved Connection.
B—Short Nozzle.
D—Bayonet Connection.
P—All-Metal Plunger.

| | | |
|--|----|----|
| All-Metal, No. 15.—20-minim capacity, in metal case | s. | d. |
| „ No. 13.—40 „ „ „ „ „ „ „ „ „ „ „ „ | 8 | 6 |
| Extra Needles for either of „ above Syringes per tube of 6 | 10 | 6 |
| | 1 | 6 |

These Syringes can be had, to order, in leather cases, at the same prices as in metal cases.

SIMPLE ASEPTIC HYPODERMIC SYRINGES, WITH GLASS BARREL AND LEATHER PACKING.

| | | |
|--|----|----|
| Simple, No. 6.—20-minim capacity, in leather-lined case | s. | d. |
| „ No. 11.—40 „ „ „ „ „ „ „ „ „ „ „ „ | 7 | 6 |
| Extra Needles for either of „ above Syringes per tube of 6 | 9 | 6 |
| | 1 | 6 |
| Bardet's Steriliser for Hypodermic Syringes | 2 | 0 |

ARTICLES, VARIOUS.

| | | | |
|--|----|----|----|
| Gasometer, for use in Operating Room, to hold 8 | £ | s. | d. |
| gallons of Gas each | 6 | 0 | 0 |
| „ to hold 12 gallons of Gas „ | 6 | 10 | 0 |
| „ Either size fitted with two sets of rings | | | |
| and double union extra | 0 | 12 | 6 |
| Union, Y shape, for joining two gas cylinders together . . | 0 | 2 | 6 |
| Gas Quieter, in Brass, lacquered each | 0 | 9 | 6 |
| „ „ Nickel-plated „ | 0 | 10 | 6 |
| India-Rubber Tubing, small red, very thick . . per foot | 0 | 0 | 10 |
| „ „ covered with worsted, wired | | | |
| inside „ | 0 | 1 | 10 |
| „ „ covered with worsted, | | | |
| smooth inside „ | 0 | 2 | 9 |
| Hemp Bags for Gas Cylinders, 50-gallon size . . each | 0 | 3 | 6 |
| „ „ 100 „ „ | 0 | 3 | 6 |
| Wooden Cases for Gas Cylinders: | | | |
| To hold one 50-gallon size „ | 0 | 2 | 6 |
| „ two „ „ „ | 0 | 3 | 0 |
| „ one 100-gallon size „ | 0 | 3 | 0 |
| „ two „ „ „ | 0 | 3 | 6 |
| Paterson's Improved Nasal Inhaler | 2 | 15 | 0 |
| Lennox's Nasal Anæsthetiser | 0 | 9 | 0 |
| Automatic Inhaling Apparatus (Houghton & Jackson's | | | |
| Patent) | 4 | 10 | 0 |
| Hewitt's Portable Apparatus for administering Nitrous | | | |
| Oxide and Oxygen | 10 | 6 | 3 |
| Special Leather Bag for holding the above . . . | 4 | 10 | 0 |
| The Rumboll Gas and Oxygen Apparatus | 4 | 4 | 0 |
| Nitrite of Amyl Capsules per box | 0 | 2 | 6 |
| Amyl Nitrite Palatinoids per bottle | 0 | 2 | 0 |
| Wilson's Local Anæsthetic: | | | |
| 1 oz. 3s.; 2 oz. 6s.; 6 oz. 16s. 12 oz. | 1 | 10 | 0 |
| Creager's Anæsthetic Pencil—One Holder and 4 Points . | 0 | 10 | 0 |
| „ „ 1 Point | 0 | 4 | 0 |
| Jamieson's Aponia per bottle | 0 | 2 | 0 |
| Scott's Improved Calorific Fluid large „ | 0 | 4 | 6 |
| „ „ „ small „ | 0 | 2 | 6 |
| Snape's Calorific Fluid large „ | 0 | 5 | 6 |
| „ „ „ small „ | 0 | 3 | 6 |

ASH'S DENTAL RUBBERS.

UNAPPROACHED FOR

**Excellence, Purity, Strength, Elasticity,
and Density.**

Made in Thirty-four Varieties.

To mark the genuineness of our Rubbers, the face of every box and envelope which we supply bears this signature and monogram—



and one of the pieces of cloth in which each sheet of Rubber is packed bears this signature—



in addition to the name of the Rubber. Always ask for ASH'S when ordering our Dental Rubbers.

PINK COATING RUBBERS in 9 different kinds.

RUBBERS FOR BASE in 20 different kinds.

SPECIAL RUBBERS for lining Palates and for making Soft Artificial Palates—Soft Pink, Soft Dark Red, and Vela.

WEIGHTED RUBBERS for Lower Dentures—Pink and Brown.

REPAIRING RUBBERS—Pink for Facing, Brown and Black for Base.

For Full List of our Dental Rubbers, see next page.

ASH'S DENTAL RUBBERS—*continued.*

FOR COATING.

| | COLOUR. | | s. d. |
|--|------------------|---------|-------|
| Improved Pink, Shade No. 1 | Medium | per lb. | 25 0 |
| " " " " 2 | Light | " | 25 0 |
| N.V., without Vermilion | Medium | " | 21 0 |
| New Pink | " | " | 21 0 |
| No. 1x " | " | " | 21 0 |
| " 1 " | Light | " | 21 0 |
| Gum-Pink | Medium | " | 21 0 |
| " " | Light | " | 21 0 |
| No. 2x Pink | Medium | " | 18 0 |
| Repairing Rubber | Pink | " | 21 0 |
| Weighted Rubber for Lower Dentures | " | " | 21 0 |

FOR BASE.

| | COLOUR. | | s. d. |
|--|--------------------------|---------|-------|
| S. P. | Deep Pink | per lb. | 16 0 |
| White, for Side Blocks, etc. | Bone | " | 16 0 |
| Child's G. | Bright Red | " | 16 0 |
| A. E. Elastic | Dark Brown | " | 16 0 |
| Repairing Rubber | Brown | " | 16 0 |
| " " | Black | " | 16 0 |
| Weighted Rubber for Lower Dentures | Brown | " | 16 0 |
| W. Elastic | Dark Brown | " | 16 0 |
| Whalebone, No. 1 | " " | " | 16 0 |
| " " 2 | Light " | " | 14 0 |
| Solid Base | Pinkish Brown | " | 14 0 |
| Dark Red | — | " | 12 0 |
| Flexible Base | Light Brown | " | 12 0 |
| Dark Elastic | Brownish Black | " | 12 0 |
| Red | — | " | 10 0 |
| Orange | — | " | 10 0 |
| Black | — | " | 10 0 |
| Dark Brown | — | " | 10 0 |
| Brown | — | " | 10 0 |
| Improved Black | Jet Black | " | 10 0 |

SPECIAL—FOR TENDER GUMS, Etc.

| | Degrees Fahrenheit. | Time. H. M. | | s. d. |
|---|---------------------|----------------|---------|-------|
| Soft Pink, for lining Palates | 315 | 1 15 | per lb. | 21 0 |
| Soft Dark Red " " | 315 | 1 15 | " | 12 0 |
| Vela, for making artificial Palates | 270 | 6 0 | " | 21 0 |

A discount of ten per cent. is allowed when 5 lbs. of rubber are purchased at one time. This quantity may consist of several kinds.

American and other Rubbers kept in Stock.

SOME LEADING DENTAL RUBBERS

→+ MANUFACTURED BY →+

CLAUDIUS ASH & SONS LTD

IN THE MANUFACTURE OF THESE RUBBERS ONLY THE
PUREST AND STRONGEST MATERIALS ARE USED.



WHALEBONE No. 1.



No. 1X.



DARK ELASTIC.



GUM-PINK.
LIGHT



RED.



GUM-PINK
MEDIUM.



IMPROVED BLACK.



No 1, PINK.



ORANGE.



ASH'S PORTABLE WROUGHT-COPPER VULCANIZERS.

(ASH'S ENGLISH MANUFACTURE.)

FIG. 1,
WITH THERMOMETER.



CAST-IRON JACKET.

Strong, durable, and well spread
at the Base.



DIMENSIONS:

| | Boiler, inside measurements. | | | | Height of Vulcanizer. | |
|----------------------|------------------------------|---------|--------|----------------|-----------------------|--|
| Two-Flask size . . . | 5½ in. | deep by | 4¼ in. | diameter . . . | 21½ in. | |
| Three „ „ . . . | 7¾ in. | „ | 4¼ in. | „ . . . | 24 in. | |
| Four „ „ . . . | 9½ in. | „ | 4¾ in. | „ . . . | 26 in. | |

| | Size— | | | 2-Flask. | | | 3-Flask. | | | 4-Flask. | | |
|--|-------|----|----|----------|----|----|----------|----|----|----------|----|----|
| | £ | s. | d. | £ | s. | d. | £ | s. | d. | £ | s. | d. |
| With Thermometer, for Gas or Spirit . . . | 5 | 5 | 0 | 5 | 10 | 0 | 6 | 10 | 0 | | | |
| *With Knöferl's Gauge instead of Thermometer, for Gas only | 6 | 15 | 0 | 7 | 0 | 0 | 8 | 0 | 0 | | | |

These prices include Spanner, Packing Remover, Six Fusible Plugs, Bunsen Burner or Spirit Lamp.

The Two-Flask and the Three-Flask sizes can be had with either Sheet-Iron Jacket and Tripod or with Cast-Iron Jacket at the option of the purchaser, but the Four-Flask is only supplied with Sheet-Iron Jacket and Tripod.

Any of the Vulcanizers can be had with Steam Tap at an extra cost of 5s. The price of the Cast-Iron Jacket separately is 12s. 6d.

Flasks are charged extra.

* This Gauge is illustrated on page 231.

ASH'S VULCANIZERS—*continued.*

Fig. 1—Additional Size, with Steam Tap.

Inside Boiler dimensions : 8 inches deep by 5 inches diameter.

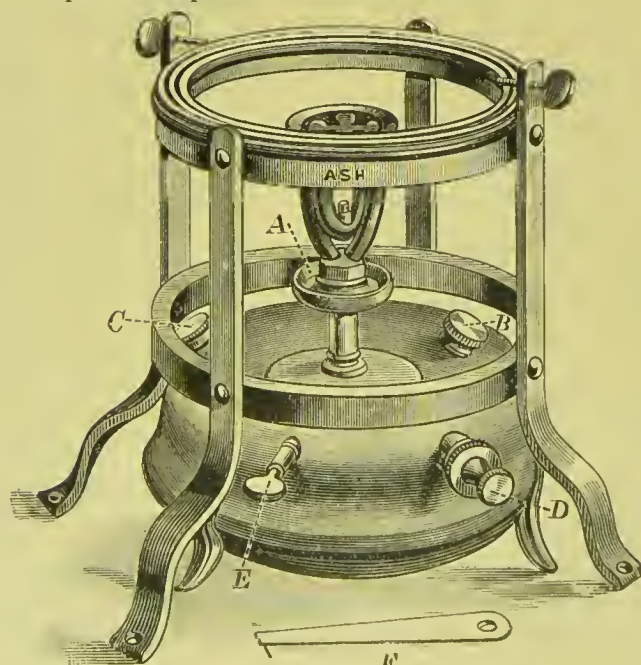
Will hold three of the largest Flasks made.

PRICES, with Sheet-Iron Jacket and Tripod, or with Cast-Iron Jacket and the accessories mentioned on previous page :

| | £ | s. | d. |
|---|---|----|----|
| With Thermometer, for Gas or Spirit | 5 | 0 | 0 |
| * With Knöferl's Gauge instead of Thermometer, for Gas only | 6 | 10 | 0 |

“PRIMUS” PARAFFIN STOVE FOR VULCANIZERS.

Any of our Vulcanizers with Sheet-Iron Jackets, which are used with Thermometer, can be had with this Stove, instead of with Tripod and Spirit Lamp, at an extra cost of 10s.



DESCRIPTION :

- A*—Methylated Spirit Cup.
- B*—Cap to take the place of Burner when the Stove is dismantled.
- C*—Cap which covers opening used for filling the Stove.
- D*—Pump for raising the Paraffin Oil from the Reservoir.
- E*—Tap for regulating the flame and for extinguishing it.
- F*—Needle Point for clearing the spray exit.

*Directions for Use
supplied with each Stove.*

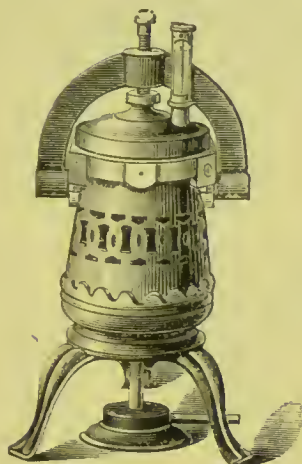
| | s. | d. |
|---|----|----|
| Stove with Stand, complete as illustrated | 21 | 0 |
| <i>Separately :</i> Stove only | 12 | 0 |
| Stand | 10 | 0 |

* This Gauge is illustrated on page 231.

ASH'S PORTABLE WROUGHT-COPPER VULCANISERS WITH STEAM TAP.

(ASH'S BERLIN MANUFACTURE.)

FIG. 3.



DIMENSIONS:

| | Boiler, inside measurements. | Height of Vulcanizers. |
|------------------|--|------------------------|
| One-Flask size . | $3\frac{3}{4}$ in. deep \times $4\frac{3}{8}$ in. diameter | 18 in. |
| Two-Flask „ . | $5\frac{1}{4}$ in. „ \times $4\frac{3}{8}$ in. „ | 21 in. |
| Three-Flask „ . | 8 in. „ \times $4\frac{3}{8}$ in. „ | 24 in. |

PRICES, including Spanner, Packing Remover, Six Fusible Plugs, Bunsen Burner or Spirit Lamp:

| Size— | One-Flask. | Two-Flask. | Three-Flask. |
|--|------------|------------|--------------|
| | £ s. d. | £ s. d. | £ s. d. |
| With Thermometer, for Gas or Spirit . | 3 10 0 | 4 7 6 | 4 13 6 |
| *With Knöferl's Gauge instead of Thermometer, for Gas only | 5 0 0 | 5 17 6 | 6 3 6 |

Flasks are charged extra.

CHEAP PORTABLE VULCANIZERS.

Made in two sizes as under with Gun-Metal Boiler.

FIG. 6.

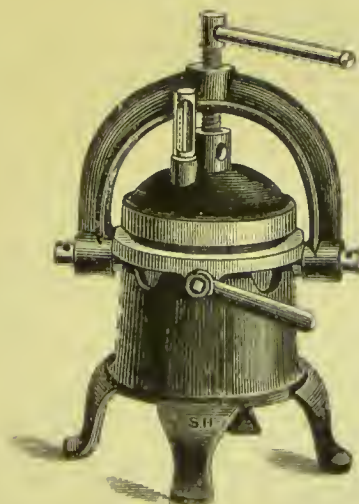
(a) To hold one Flask.

Inside measurements of Boiler : $3\frac{3}{4}$ inches deep by $4\frac{1}{2}$ inches diameter.

(b) To hold two Flasks.

Inside measurements of Boiler : $5\frac{3}{8}$ inches deep by $4\frac{1}{2}$ inches diameter.

| | £ s. d. |
|---------------------------------------|---------|
| Vulcanizer to hold one Flask (Fig. 6) | 1 11 6 |
| „ „ two Flasks („ 6) | 2 10 0 |
| Thermometer extra | 0 3 0 |
| Burner, Fletcher's No. 200 . „ | 0 2 3 |



* This Gauge is illustrated on page 231.

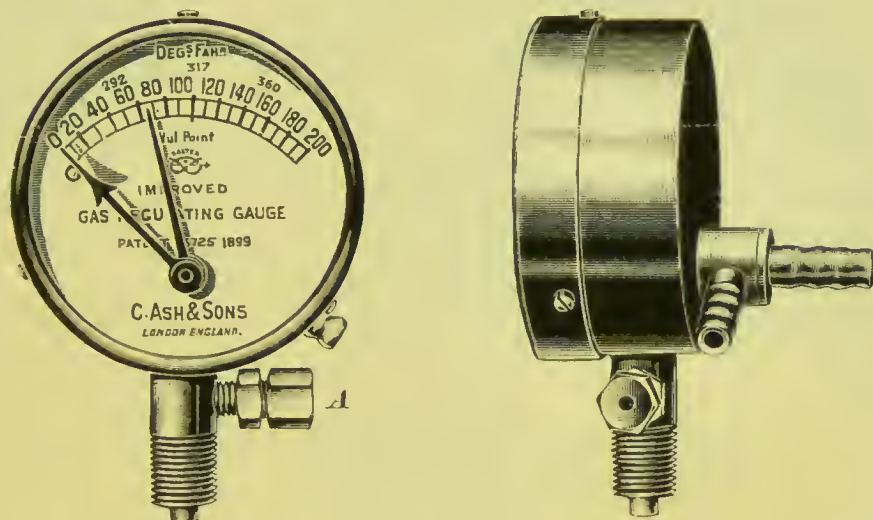
ARTICLES, VARIOUS.

| | | | |
|---|----------|----------|----------|
| Ash's Hinged-Bolt Vulcanizer, extra large size : | £ | s. | d. |
| With Sheet-Iron Jacket and Tripod, complete with accessories | 8 | 0 | 0 |
| With Cast-Iron Jacket | 8 | 12 | 0 |
| Either of the above fitted with Knöferl's Gauge and Copper Syphon extra | 1 | 10 | 0 |
| | 1-Flask. | 2-Flask. | 3-Flask. |
| Hayes' Iron-Clad, for Gas, Spirit, or | £ s. d. | £ s. d. | £ s. d. |
| Paraffin, with Flasks | 2 14 0 | 3 3 0 | 3 10 0 |
| Whitney's Copper, for Gas, Spirit, or Paraffin, with Flasks | 2 10 0 | 2 18 6 | 3 7 0 |
| Extra Parts :— | | | |
| Spirit Lamp, for Vulcanizers each | 0 | 2 | 6 |
| India-Rubber Packings, endless, for Hayes' Vulcanizer, per doz. | 0 | 5 | 0 |
| „ „ „ for Whitney's „ „ | 0 | 4 | 0 |
| Gas Laboratory Lamp each | 0 | 2 | 6 |
| Safety Dises, in packages of 1 dozen, with washers per pkt. | 0 | 2 | 0 |
| Thermometers, Nickel-plated each | 0 | 8 | 0 |
| Tubes and Seales, for Thermometers „ | 0 | 3 | 6 |
| Wrench for Hayes' or Whitney's Flasks „ | 0 | 0 | 8 |
| „ for Whitney's Vulcanizer, double-ended „ | 0 | 1 | 3 |
| „ for holding Boiler of Whitney's Vulcanizer „ | 0 | 2 | 3 |
| Wrench and Bed-Plate for Whitney's Vulcanizer „ | 0 | 3 | 3 |
| Vulcanite and Celluloid Apparatus (Mr. Gartrell's) with Gas-regulating Gauge, <i>without</i> Flasks | | | |
| Flasks, in Bronze each | 0 | 6 | 0 |
| Clamp for two Flasks, with Plate and Stool | 0 | 10 | 6 |
| Gas Burner | 0 | 6 | 0 |
| Simple Celluloid Apparatus for Oil or Glycerine | 1 | 4 | 0 |
| „ „ „ „ „ without Cover | 1 | 0 | 0 |
| Celluloid Plates : | | | |

| Sizes— | 1½ | 2 | 2½ | 3 | 3½ | 4 | 4½ | 5 | 5½ | 6 | 6½ |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | s. d. | s. d. | s. d. | s. d. | s. d. | s. d. | s. d. | s. d. | s. d. | s. d. | s. d. |
| Uppers | — | — | — | 0 8 | 0 10 | 0 9 | 0 11 | 0 11 | 1 0 | 1 1 | 2 |
| „ „A” | — | — | — | 0 11 | 1 0 | 1 0 | 1 2 | 1 3 | 1 3 | 1 7 | 9 |
| Lower | 0 6 | 0 6 | 0 8 | 0 7 | 0 10 | 0 10 | 1 1 | — | — | — | — |
| Plumpers | — | — | — | 1 1 | — | 1 6 | — | 1 9 | — | 1 5 | — |

| Sizes— | 5 | 6 | 7 | 8 | 9 | 10 |
|--------------------|-------|-------|-------|-------|-------|-------|
| | s. d. | s. d. | s. d. | s. d. | s. d. | s. d. |
| Partials | 0 4 | 0 5 | 0 6 | 0 8 | 0 7 | 0 9 |

KNÖFERL'S PATENTED GAS-REGULATING GAUGE.



A—Safety Disc Fitting.

The Gauge, as above illustrated, has been designed and patented by Mr. Francis Knöferl ; it embodies considerable improvements, the result of his twenty years' experience. The advantages are—

First.—The arrangement controlling the supply of gas is frictionless, consequently it does not impede the action of the Gauge.

Second.—The flexible gas-supply pipe may be attached to either nipple, to meet the convenience of the Operator.

Third.—The gas chamber may be turned either way, even while the Gauge is in operation and subject to pressure, without injury to the Gauge.

If from any cause the Gauge fails to act, relief to the boiler pressure is afforded by the rupture of a copper safety disc *A* provided for that purpose. Spare discs are supplied to order.

We recommend the use of the Thermometer and Gauge together—see Circular, to be had on application.

PRICES:

| | £ | s. | d. |
|--|---|----|----|
| Gauge with Copper Syphon and Safety Disc Fitting . | 1 | 17 | 6 |

Separately :

| | | | |
|-------------------------|---|----|---|
| Gauge | 1 | 12 | 6 |
| Copper Syphon | 0 | 5 | 0 |

NOTE.—We have ceased to supply the Iron Syphon because it is liable to corrode and choke the Gauge. There is no such danger with a Copper Syphon.

ASH'S Fig. 90 FLASK.



In three parts: simple, compact, and strong; much liked and extensively used on account of its general utility.

| | Large. | Small. |
|----------------------|--------|--------|
| | s. d. | s. d. |
| In Gun-Metal | 5 6 | 4 6 |
| In Iron | 4 6 | 4 0 |

WROUGHT-IRON RING,

WITH THUMB SCREW.

For Ash's Fig. 90 Flask shown above, and for other Flasks.

Made in two sizes—large and small.

| | s. d. |
|-------------------------------|-------|
| Price, either size . . . each | 3 6 |

Both sizes of Fig. 90 Flask when employed in conjunction with this Ring and Thumb Screw are too large for our Portable Vulcanizers; if either is required to go in these Vulcanizers, the Clamp and Wedge shown below must be used with it.



WROUGHT-IRON CLAMP,

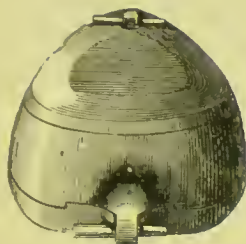
WITH WEDGE.



For Ash's Fig. 90 and other Flasks.
Made in two sizes—large and small.

| | s. d. |
|-------------------------------|-------|
| Price, either size . . . each | 2 0 |

JORDAN'S PIN FLASK.



This well-known and favourite Flask is made in three sizes, which time has proved to be the most useful for all-round work.

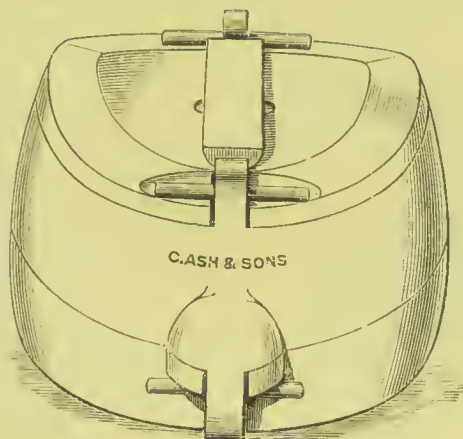
| | Iron. | Gun-Metal. |
|-------------------------|-------|------------|
| | s. d. | s. d. |
| * Extra large | — | 9 0 |
| Large | 4 6 | 7 6 |
| Medium | 4 0 | 6 0 |

* The Extra Large size will not go in our One-, Two-, and Three-Flask Portable Vulcanizers, the Large and Medium will.

OVERELL'S PIN FLASK.

This Flask is as large as it can be made for our Portable Vulcanizers, and is specially adapted for wide lowers.

By means of the lug on the lid, which is undercut to admit of being readily grasped with a suitable tool, it can be easily withdrawn from the Vulcanizer.



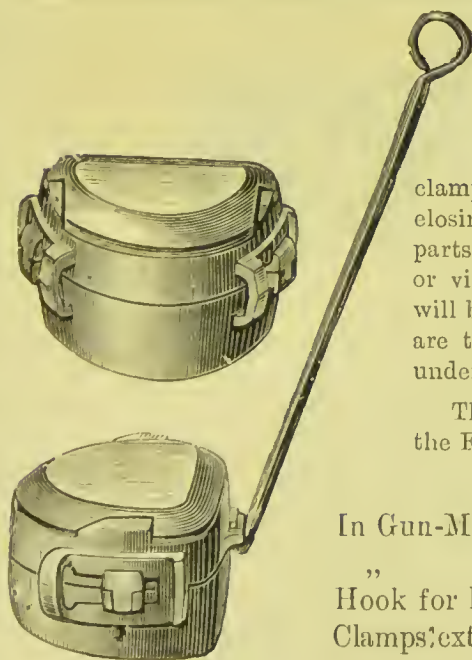
HALF-SIZE.

Price, in Gun-Metal . . . s. d.
7 6

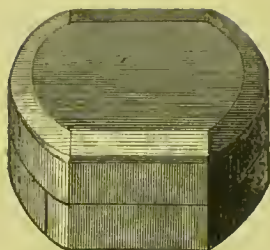
LADMORE'S FLASK.

Consisting of three parts. The upper and lower sections are held together by side clamps, but these clamps are not intended for closing the Flask; they merely serve to keep the parts together after it has been closed in the press or vice. A few light taps with a wooden mallet will be found sufficient to drive them home. There are two projections on the top of the upper part, under which the lid slides and fixes itself.

The hook, shown in the illustration, is for lifting the Flask while hot.



| | s. d. |
|-------------------------------------|-------|
| In Gun-Metal, large each | 6 6 |
| „ „ small „ | 4 6 |
| Hook for lifting Flasks „ | 0 9 |
| Clamps extra „ | 0 8 |



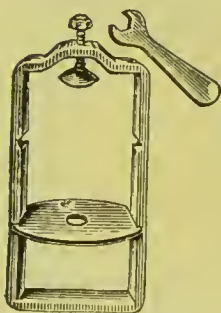
ASH'S BERLIN PATTERN FLASK.

DESIGNED FOR USE WITH CLAMPS SUCH AS
THE ONE ILLUSTRATED BELOW.

| | s. | d. |
|------------------------|----|----|
| In Iron | 5 | 0 |
| In Gun-Metal | 7 | 6 |
| „ „ Deep | 9 | 0 |

WROUGHT-IRON CLAMPS,

WITH NUTS AND SPANNERS,
FOR USE WITH OUR BERLIN PATTERN FLASKS.



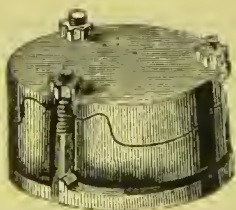
These are made in the three following sizes : For one, for two, and for three Flasks. The illustration shows a Clamp, etc., for three Flasks.

| | s. | d. |
|--|----|----|
| Clamp and Spanner for one Flask | 4 | 6 |
| Clamp, Plate, and Spanner for two Flasks | 5 | 6 |
| „ „ „ „ three „ | 8 | 0 |

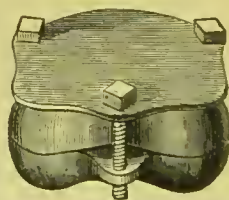
The Clamps will go in our Portable Vulcanizers.

FLASKS WITH BOLTS AND NUTS.

HAYES'.



WHITNEY'S.



| | | Iron. | Gun-Metal. |
|--|---|-------|------------|
| | | s. d. | s. d. |
| Hayes'—one size only. | each | 4 0 | 7 0 |
| Separately { | Iron Bottom with three Bolts and Nuts | 2 0 | — |
| | Gun-Metal | — | 3 6 |
| | Extra Bolts with Nuts | 0 4 | — |
| Whitney's, ordinary | .. | 4 0 | 6 0 |
| „ deep | .. | 4 0 | — |
| „ slot | .. | 4 0 | — |
| Extra Bolts with Nuts for any form | .. | 0 2 | — |
| Spanners for Flasks, double-ended | .. | 0 8 | — |

All the above Flasks will go in our Portable Vulcanizers.

CHRISTENSEN'S HOT-WATER APPARATUS.

(REGISTERED. REG. NO. 366,335.)

SPECIALLY DESIGNED FOR SCALDING-OUT WAX FROM FLASKS;
Also invaluable for giving a continuous supply of Hot Water for
use either in the workroom or in the operating room.

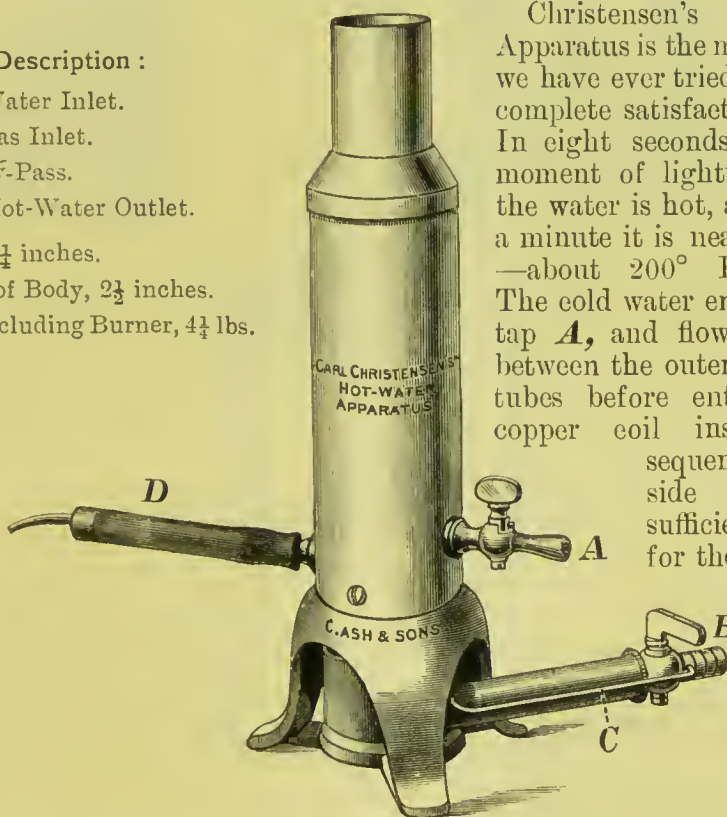
Description :

- A*—Water Inlet.
- B*—Gas Inlet.
- C*—By-Pass.
- D*—Hot-Water Outlet.

Height, $13\frac{1}{4}$ inches.

Diameter of Body, $2\frac{1}{2}$ inches.

Weight, including Burner, $4\frac{1}{4}$ lbs.



Christensen's Hot-Water Apparatus is the most perfect we have ever tried, and gives complete satisfaction in use. In eight seconds from the moment of lighting the gas the water is hot, and in half a minute it is nearly boiling—about 200° Fahrenheit. The cold water enters at the tap *A*, and flows upwards between the outer and inner tubes before entering the copper coil inside, consequently the outside is always sufficiently cool for the apparatus to be handled, no matter how hot the water is.

| | | | |
|---|---|----|----|
| Price, dull Nickel-plated, with Directions for Use. | £ | s. | d. |
| | 1 | 12 | 6 |

INSTANTANEOUS WATER HEATER.

HORIZONTAL PATTERN.

(FLETCHER, RUSSELL & CO.)

For Washing out Flasks ; gives a steady fine stream of water, nearly boiling.

| | | | |
|---------------------------|---|----|----|
| Price | £ | s. | d. |
| „ Nickel-plated | 1 | 10 | 0 |
| | 1 | 17 | 6 |

FLASK PRESSES.

FIG. 1.

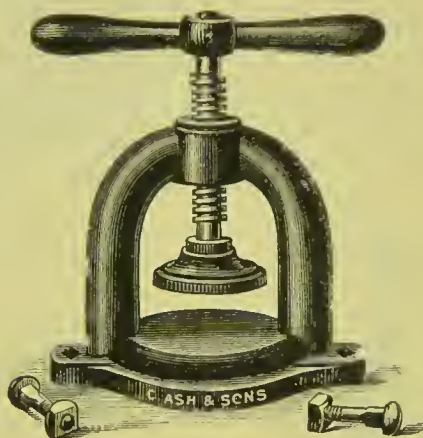
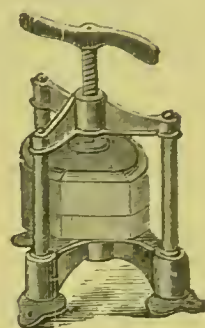


FIG. 2.



| | | |
|--|----|----|
| Iron Press for closing Vulcanite Flasks, with bolts and nuts | s. | d. |
| for fastening to bench (Fig. 1) | 16 | 0 |
| Handy Flask Press, without Flask („ 2) | 12 | 0 |

ARTICLES (VARIOUS)

FOR VULCANIZERS.

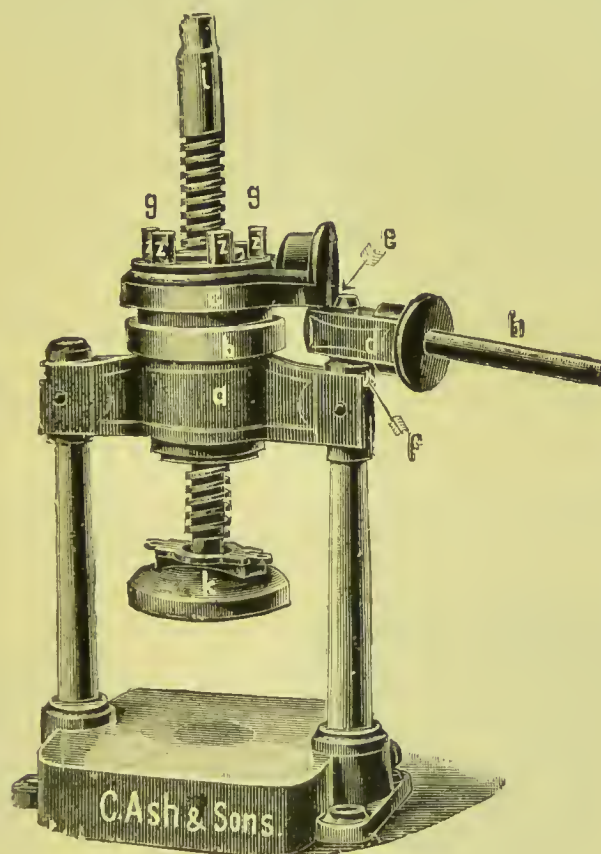
| | | |
|--|----|----|
| Fusible Plugs per dozen | s. | d. |
| | 2 | 0 |
| India-Rubber Collars— | | |
| For Fig. 1 Vulcanizers, on page 227 each | 0 | 3 |
| „ „ 1 Additional size, „ 228 „ | 0 | 6 |
| „ „ 3 Vulcanizers, „ 229 „ | 0 | 4 |
| „ „ 6 „ „ 229 „ | 0 | 4 |
| Thermometers— | | |
| For Fig. 1 Vulcanizers, on page 227 „ | 7 | 6 |
| „ „ 3 One-Flask, „ 229 „ | 6 | 0 |
| „ „ 3 Two- and Three-Flask, on page 229 „ | 7 | 6 |
| „ „ 6 Vulcanizers, on page 229 „ | 3 | 0 |
| Thermometers repaired, all kinds each, from | 4 | 0 |
| Tube with Fahrenheit Scale for above Thermometers each | 4 | 0 |

Thermometers with Centigrade Scale to order.

ASH'S SWAGING PRESS.

WITH DUCHSCHER'S DIFFERENTIAL LEVER ACTION.

*Unrivalled among Swaging Presses; gives universal satisfaction;
is continually growing in favour.*



Every kind of Metal Plate can be successfully swaged, without difficulty, in this Press.

To avoid undue strain upon the Press, deep Dies and Counters are recommended.

Descriptive Circular on Application.

| | £ | s. | d. |
|--|---|----|----|
| Press, as illustrated, for fixing on Work-Bench . | 5 | 15 | 0 |
| Strong Iron Stand for holding Press. instead of
fixing it on Work-Bench extra | 2 | 0 | 0 |

PLASTER OF PARIS.

SPECIALLY PREPARED FOR DENTAL PURPOSES.

Knowing as we do that good Plaster of Paris is of the utmost importance to dentists, we give the strictest attention to each kind which we supply, and this enables us to recommend it with the fullest confidence. Every lot is carefully tested before it is offered for sale, and it is very gratifying to us to be able to state that our Plaster gives general satisfaction to all who use it, both at home and abroad.

| <i>PRICES:</i> | | Per bag. | | Per cwt. | |
|---|---------------------|----------|----|----------|----|
| | | s. | d. | s. | d. |
| Fine, for Models | in 7-lb. paper bags | 0 | 6 | 6 | 6 |
| Superfine, for Models | „ | 0 | 9 | 9 | 6 |
| Extra Superfine, for Models and Impressions | „ | 1 | 0 | 12 | 6 |

Plaster of Paris in paper bags, as above, wrapped in waterproof paper and packed for export in tin-lined cases, supplied to order.

Dentists residing abroad and in the Colonies will find this much cheaper than the Tins mentioned on the next page, if they can keep the Plaster in a dry place when they receive it.

RUBBER BOWLS FOR MIXING PLASTER.

These Bowls are made of soft rubber, about one-eighth inch thick. The principal advantages in their use are: They cannot be broken: their sides can be pressed together so as to form a lip or spout for pouring out soft plaster; the plaster that remains in them and becomes set can be thoroughly crushed and removed by squeezing the sides of the bowls together.

PRICES:

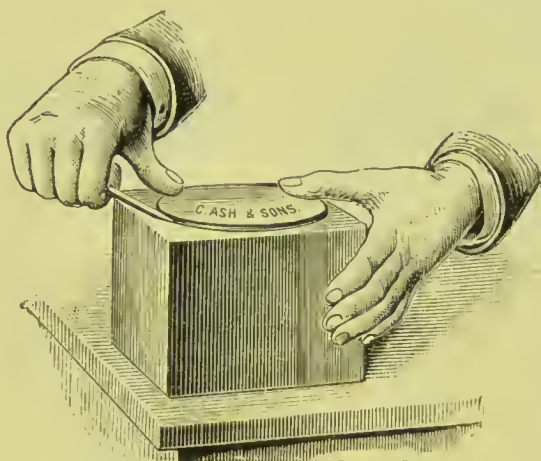
| | | s. | d. |
|---|------|----|----|
| Small Plaster Bowls, 4 in. diameter by $2\frac{3}{4}$ in. deep inside | each | 2 | 6 |
| Large „ 4½ in. „ by $3\frac{1}{2}$ in. „ | „ | 3 | 4 |

PLASTER OF PARIS FOR EXPORT.

IN TINS WITH PATENT SELF-OPENING LIDS.

All our Plaster Tins are now fitted with the Patent Self-opening Lid. This Lid is so constructed that it can be removed and replaced any number of times without becoming loose, and it fits the Tin so perfectly that the air is excluded from the Plaster, which can thus be kept good for any length of time.

To open the Tin, lever up the Lid, as shown in the illustration, with the side of a screw-driver, or other suitable tool.



PRICES:

| | | s. | d. |
|--|---------|----|----|
| Plaster of Paris, extra superfine, in 2-lb. Tins | per tin | 0 | 9 |
| " " " " 7-lb. " | " | 2 | 0 |
| " " " " 14-lb. " | " | 3 | 9 |
| " " " " 28-lb. " | " | 6 | 0 |

Fine and Superfine Plaster supplied in Tins to order.

| | | | |
|---|------------|---|---|
| Stearine, for hardening Plaster Models | per lb. | 1 | 3 |
| Non-Adhesive Liquid, for coating Models | per bottle | 1 | 0 |
| Collodion, for coating Models | " | 2 | 0 |

ASH'S LEATHER-FACED HAMMER.



(REGISTERED.
REG. NO. 376,231.)

FULL SIZE.

For use in roughly shaping plates to dies.

| | | |
|-------|----|----|
| Price | s. | d. |
| | 3 | 9 |

Extra Leathers, small, each, 3d.; large, each, 4d.

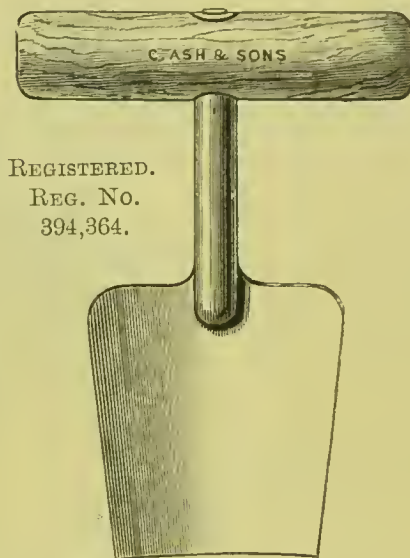
PLASTER MIXER AND KNIVES.

MIXER.



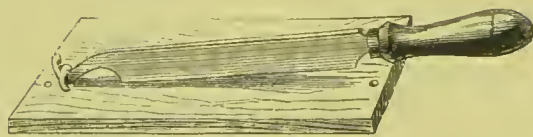
REGISTERED. REG. NO. 398,851.

TRIMMER.



ABOUT HALF-SIZE.

KNIFE ON BOARD.



16 inches long.

KNIFE.



Ash's Plaster Mixer—

| | s. | d. |
|---|----|----|
| * In hard white metal each | 1 | 9 |
| Aluminium Plaster Mixer and Spatula .. | 1 | 6 |
| " " in wooden handle .. | 0 | 9 |
| Ash's Plaster Trimmer | 1 | 3 |
| Plaster Knife for trimming Models | 1 | 0 |
| " " on Board | 5 | 6 |

7 3/8 in. long.

WAX SPATULAS AND PACKING TOOLS.



| | | | |
|---------------------------------------|------|----|----|
| Wax Knife (Dr. Fahnstock's) (Fig. 1) | each | s. | d. |
| „ Spatula, steel, single-ended („ 2) | „ | 1 | 0 |
| „ „ „ double-ended („ 2A) | „ | 1 | 4 |

Dental Rubber Packers:—

| | | | |
|------------------------------------|------|---|---|
| In Ebony handle, curved . (Fig. 3) | each | 0 | 9 |
| „ „ straight. („ 4) | „ | 0 | 9 |

| | | | |
|-----------------------------------|---|---|---|
| Wax Spatula (Mr. Biss's) . („ 6) | „ | 1 | 9 |
|-----------------------------------|---|---|---|

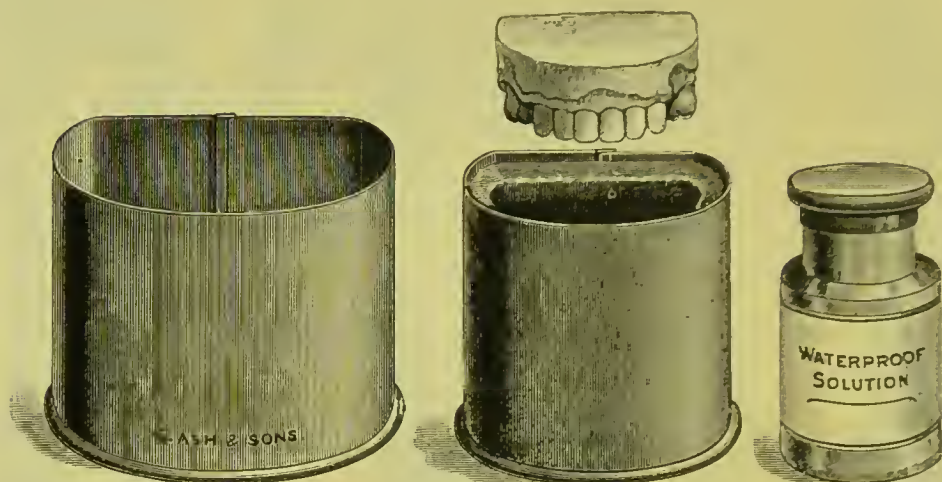
Other Spatulas, etc., supplied to order.

FULL SIZE

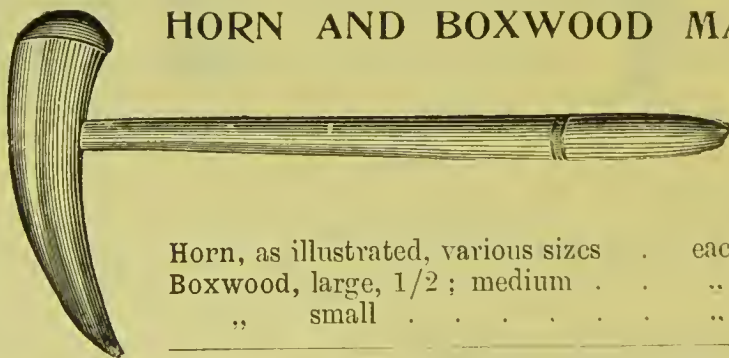
R

APPARATUS FOR DUPLICATING PLASTER MODELS.

(Mr. WHITEHOUSE'S.)

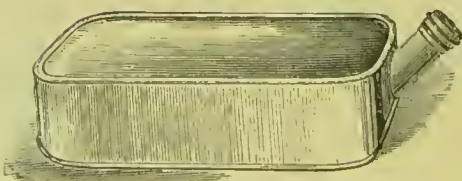


| | | s. | d. |
|---|---|----|----|
| Duplicating Apparatus, complete, with directions for use. | | 10 | 6 |
| Separately. | { Gelatine Composition per packet | 4 | 6 |
| | { Waterproof Solution „ bottle | 2 | 3 |
| | { Clay „ box | 1 | 0 |
| | { Large Ring each | 1 | 2 |
| | Small „ „ | 1 | 2 |



HORN AND BOXWOOD MALLETS.

| | | s. | d. |
|-------------------------------------|------|----|----|
| Horn, as illustrated, various sizes | each | 1 | 9 |
| Boxwood, large, 1/2 ; medium | „ | 1 | 0 |
| „ small | „ | 0 | 9 |



10 in. long by 7 in. wide.

HOT-WATER PLATE.

For softening Dental Rubber previous to packing. Made of block tin, with copper bottom and with screw-capped opening for the water.

| | s. | d. |
|-----------------|----|----|
| Price | 5 | 3 |

ASH'S MODELLING WAX.

No. 1 PINK MODELLING WAX.

Best quality, very tough, and makes good firm base plates. Supplied in 1-lb. boxes.

| | | | |
|-------------------------|---------|----|----|
| Price | per lb. | s. | d. |
| In 7-lb. lots | „ | 3 | 0 |
| | | 2 | 9 |

No. 2 PINK MODELLING WAX.

This is very nice and tough, and well suited for the purpose for which it is intended. Supplied in 1-lb. boxes.

| | | | |
|-------------------------|---------|----|----|
| Price | per lb. | s. | d. |
| In 7-lb. lots | „ | 2 | 6 |
| | | 2 | 3 |

No. 3 PINK MODELLING WAX.

Tested by a practical worker, and approved as thoroughly suitable for dental use. Supplied in 1-lb. boxes.

| | | | |
|-------------------------|---------|----|----|
| Price | per lb. | s. | d. |
| In 7-lb. lots | „ | 2 | 0 |
| | | 1 | 9 |

BROWN MODELLING WAX.

No. 1 quality, only quality made in Brown, very tough, and makes good firm base plates. Supplied in 1-lb. boxes.

| | | | |
|-------------------------|---------|----|----|
| Price | per lb. | s. | d. |
| In 7-lb. lots | „ | 3 | 0 |
| | | 2 | 9 |

IDEAL BASE PLATES.

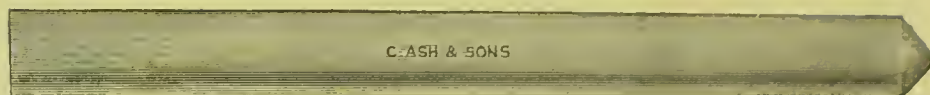
(DR. HEAD'S.)

| | | | |
|---------------------------------|---------|----|----|
| In boxes of one dozen | per box | s. | d. |
| | | 2 | 1 |

GUTTA=PERCHA FOR BASE PLATES.

(AMERICAN.)

| | | | |
|--|---------|----|----|
| In thin sheets, put up in $\frac{1}{2}$ -lb. and 1-lb. packets | per lb. | s. | d. |
| | | 9 | 6 |
| | | R | 2 |

ASH'S MODEL CEMENT.

An invaluable preparation for—

Firmly securing Teeth to Base Plates, Bands to Crowns, Clasps, Suction Chamber Patterns in place, and many other purposes in the Dental Workroom.

Supplied in Sticks as illustrated.

| | | s. | d. |
|-------|-----------|----|----|
| Price | per lb. | 9 | 0 |
| „ | per stick | 0 | 2 |

ASH'S VULCANITE CEMENT.

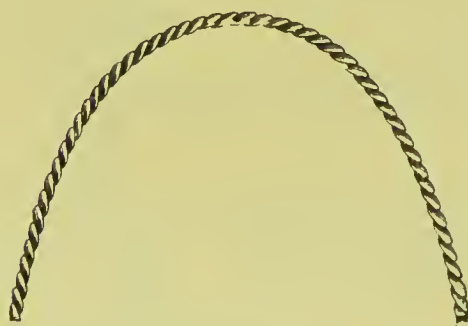
FOR TEMPORARY REPAIRS.



| | | s. | d. |
|-------|-----------|----|----|
| Price | per stick | 0 | 6 |

ASH'S METAL BARS.

FOR STRENGTHENING LOWER VULCANITE DENTURES.



In using a Metal Bar for strengthening a Lower Vulcanite Denture, it is important to see that it is suitable for its purpose. If it is too rigid it may weaken or even crack a plate, and if it is too soft it will fail to restore the plate to its normal shape, should it be subjected to undue strain in any direction.

These Bars possess just enough elasticity to give with the plate, and are, therefore, **strengtheners** in the strictest sense of the word.

| | | s. | d. |
|----------------|------------|----|----|
| In Aluminium | per doz. | 0 | 9 |
| „ White Metal | „ | 1 | 0 |
| „ „ „ Gilt | „ | 1 | 6 |
| „ Dental Alloy | per ½ doz. | 9 | 0 |

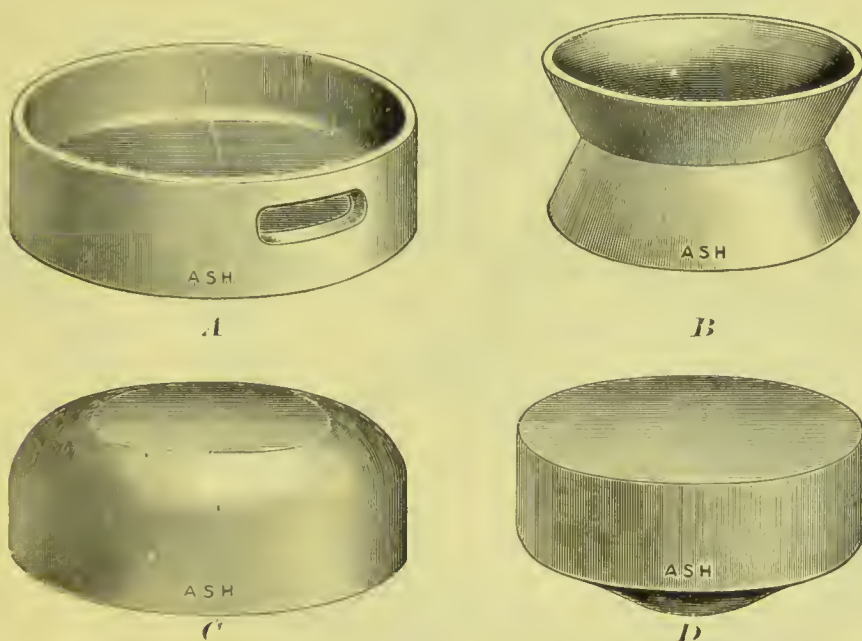
ASH'S RUBBER-BLOCK SWAGER.

IMPROVED FORM.

(REGISTERED. REG. NO. 325,701.)

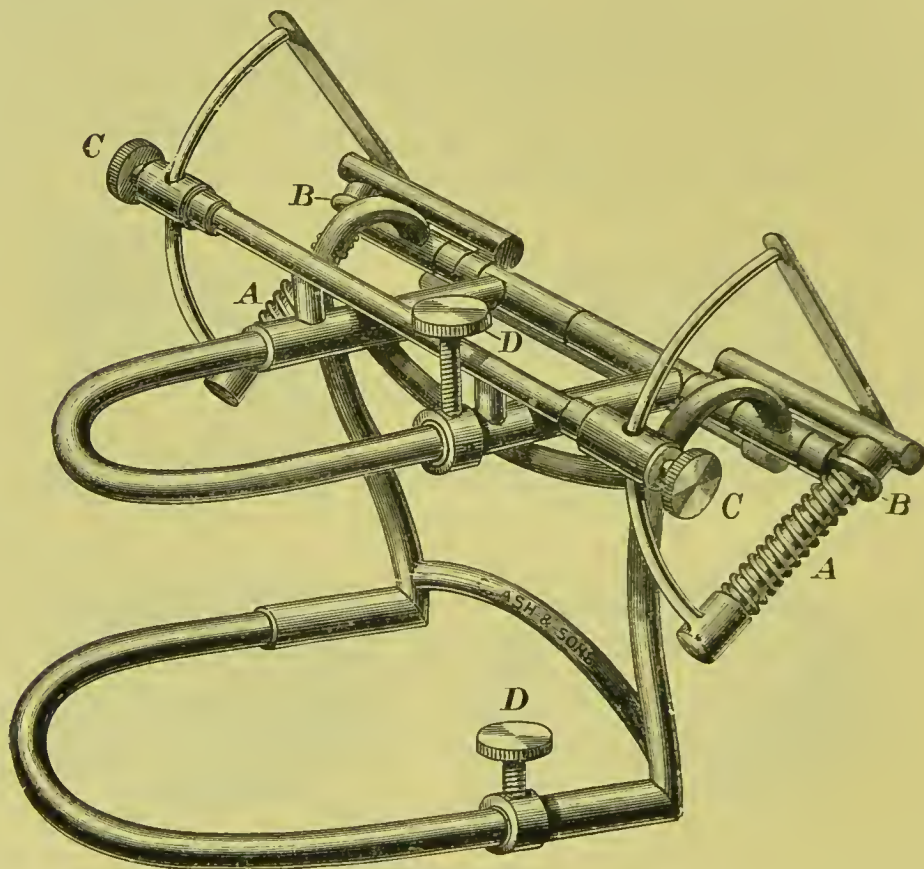
1. For lining impressions of the mouth with soft metal, so as to obtain metal-faced plaster models.
2. For making trying-in plates and base plates.
3. For making polishing plates for the lingual and palatal surfaces of vulcanite dentures.
4. For swaging strengtheners or gold facings for vulcanite dentures.

Simple, Rapid, Effective, Cleanly, and Inexpensive.



| | | | | |
|--|---|---|----|----|
| Ash's Rubber Block Swager, consisting of Cups <i>A</i> and <i>B</i> ,
Dome <i>C</i> , Hard India-Rubber Block <i>D</i> . piece of | | £ | s. | d. |
| India-Rubber Tubing, and 12 India-Rubber Studs . . . | | 0 | 15 | 0 |
| „ | Soft India-Rubber Block, for V-shaped Palates, etc., extra | 0 | 5 | 0 |
| „ | Swaging Press (No. 5) | 2 | 5 | 0 |
| „ | Swaging Composition, in ½-lb. boxes . . . per lb. | 0 | 5 | 0 |
| „ | Soft Metal, in packets, as under : | | | |
| „ | No. 1. Thin, for lining Impressions . . . „ | 0 | 3 | 0 |
| „ | 3. Thin } for making graduated Base } | 0 | 3 | 0 |
| „ | 5. Thick } Plates } | | | |
| „ | 4. Medium. Specially prepared, and only
intended for making Polishing Plates „ | 0 | 3 | 0 |
| „ | 7. Thick, for Base Plates where only one
thickness of metal is required ; also
for Trying-in Plates . . . „ | 0 | 3 | 0 |

(REGISTERED. REG. NO. 372,481.)



Mr. Carl Christensen claims that with this Articulator it is possible to imitate, "with an exactness sufficiently great for practical purposes, the natural individual movements of the jaw, which, in regard to articulation, are of importance in the construction of artificial dentures," and says that it is not intended to facilitate "the wholesale production of dentures; on the contrary, it will only be an important aid in the hands of the Dentist who turns out perfect work and who is striving to reach the ideal."

Descriptive Pamphlet on application.

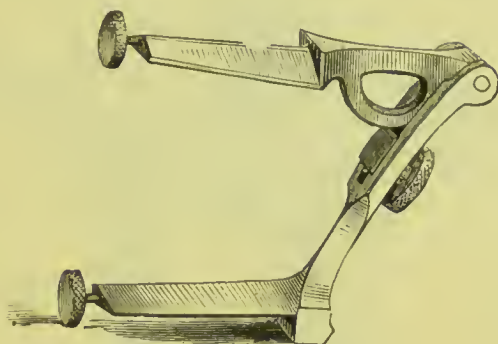
| | | |
|-----------------|----|----|
| | s. | d. |
| Price | 20 | 0 |

ARTICULATORS.

GRAHAM AND WOOD'S IMPROVED.

It is simple in construction, easily worked, and very convenient.

Price s. d.
8 0



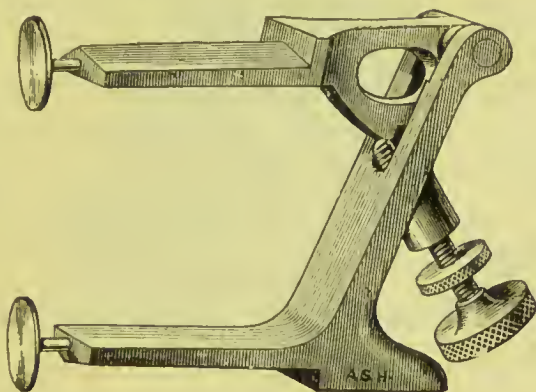
ABOUT HALF-SIZE.

ALEXANDER'S :

A MODIFICATION OF GRAHAM AND WOOD'S.

The set screw is provided with a clamp which prevents any alteration of the bite, and the heel on the lower arm makes it stand very firm on the bench.

Price s. d.
8 0



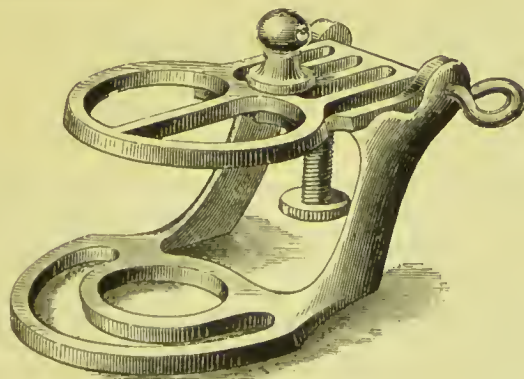
ABOUT HALF-SIZE.

PLAIN-LINE.

WITH SCREWS FOR REGULATING THE HEIGHT AND ADJUSTING THE BITE.

The two halves can be separated by withdrawing the brass pin at the back.

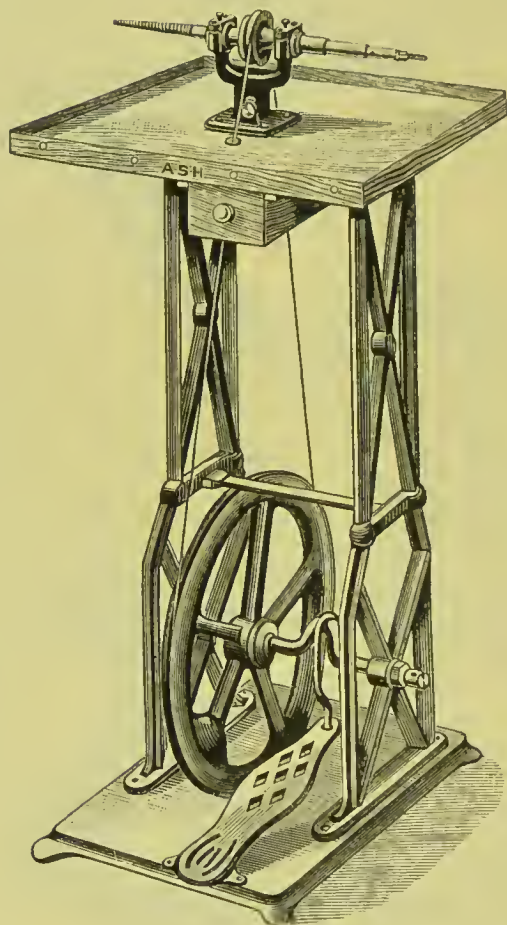
Price s. d.
3 9



HALF-SIZE.

ASH'S WORKROOM LATHES.

FIG. 4.

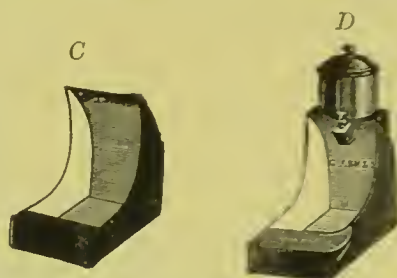


DIMENSIONS :

Height to top of Table—39 inches.

Size of Table— $18\frac{1}{2}$ inches square.

Size of Base—

20 inches long by $18\frac{1}{2}$ inches wide.

Supplied in two styles, as under:—

- (1) Base, Driving Wheel, Standards, Zinc-covered Table and Zinc Splash Guard, with Lathe Head
No. 4, page 254 . . . £ s. d. 4 15 0
- (2) Base, Driving Wheel, Standards, and plain Oak Table, as illustrated, with Lathe Head No. 4 . . . 3 15 0

Lathes as above:

| | | Style 1. | Style 2. |
|---------------------------|---------|----------|----------|
| | | £ s. d. | £ s. d. |
| With Head No. 1, page 250 | | 5 0 0 | 4 0 0 |
| „ „ 2, „ 251 | | 5 10 0 | 4 10 0 |
| „ „ 5, „ 254 | | 4 11 6 | 3 11 6 |
| „ „ 6, „ 255 | | 4 7 6 | 3 7 6 |

Water Apparatus, consisting of Trough, Sponge Holder, and Splash Guard combined. Made of zinc throughout, with Water Tank to slide from right to left; 12 in. high, 6 in. wide, and 9 in. long (Fig. D) extra

The same, without Water Tank („ C) „ 0 8 0

Separately { Zinc Splash Guard for Lathe Fig. 4 0 12 6
 { Covering Table of Fig. 4 Lathe with Zinc 0 9 0

ASH'S CHEAP WORKROOM LATHES.

DIMENSIONS :

Height to top of Table—39 inches.

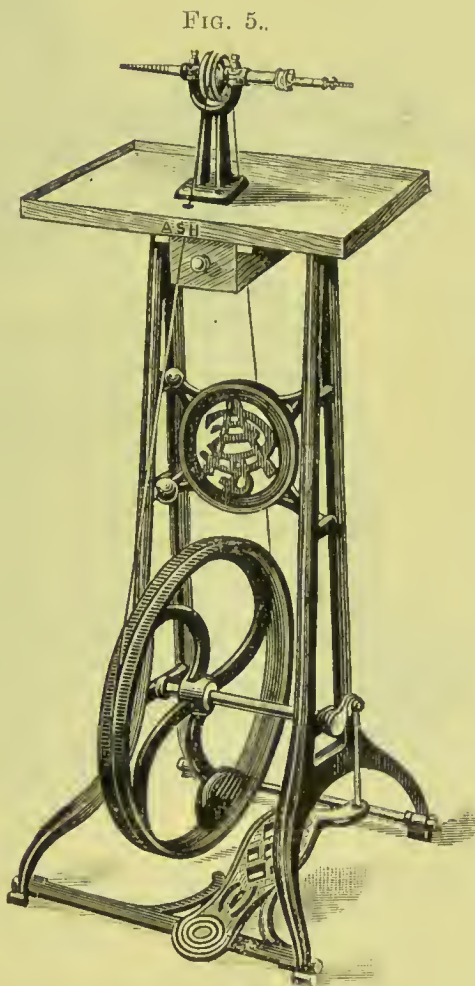
Size of Table—

17 inches long by 12 wide.

There is a drawer underneath the Table, as shown in the engraving, for holding such appliances as are not actually required while working.

Like the Lathe on the previous page, it is supplied in two styles, as mentioned below :—

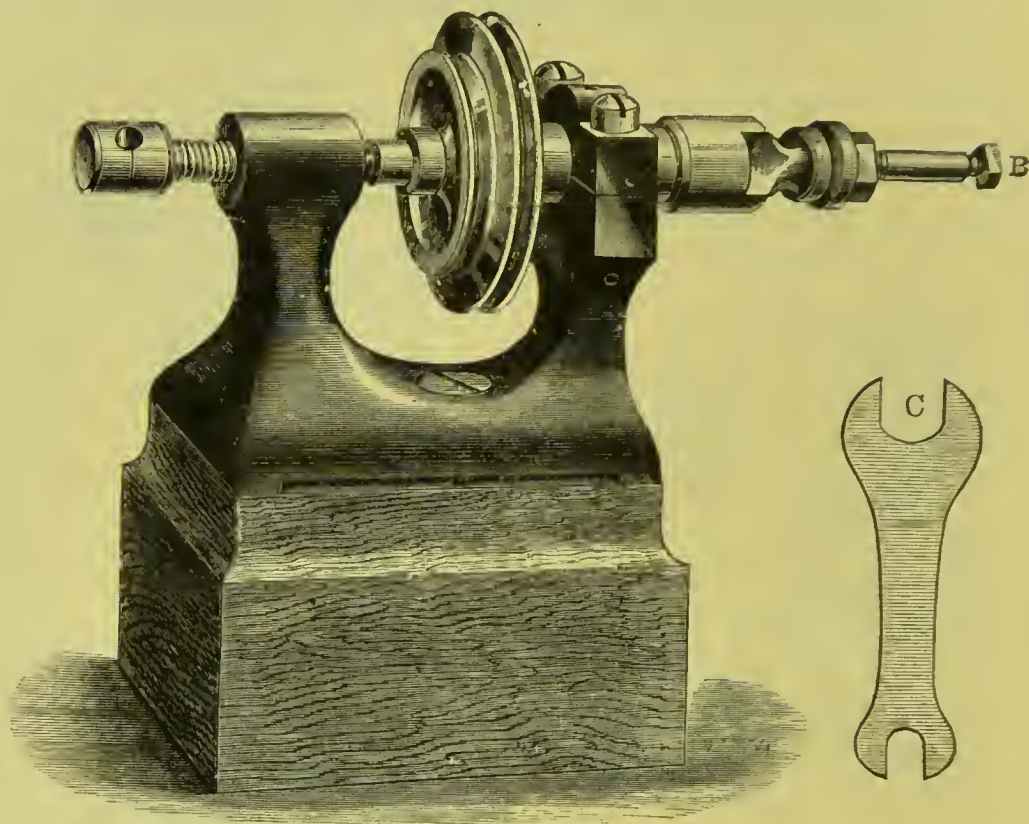
- (1) Driving Wheel, Standards, Zinc-covered Table, Zinc Splash Guard, with Lathe £ s. d.
Head No. 5, page 254. 3 13 0
- (2) Driving Wheel, Standards, and Plain Oak Table, as illustrated, with Lathe Head No. 5 2 13 0



Lathes as above:

| | Style 1. | | | Style 2. | | |
|-------------------------------------|--|----|----|----------|----|----|
| | £ | s. | d. | £ | s. | d. |
| With Head No. 1, page 250 | 4 | 1 | 6 | 3 | 1 | 6 |
| „ „ 2, „ 251 | 4 | 11 | 6 | 3 | 11 | 6 |
| „ „ 4, „ 254 | 3 | 16 | 6 | 2 | 16 | 6 |
| „ „ 6, „ 255 | 3 | 9 | 0 | 2 | 9 | 0 |
| <i>Separately</i> { | Zinc Splash Guard for Lathe Fig. 5 | | | 0 | 12 | 6 |
| | Covering Table of Fig. 5 Lathe with Zinc | | | 0 | 9 | 0 |

For Water Apparatus see previous page.

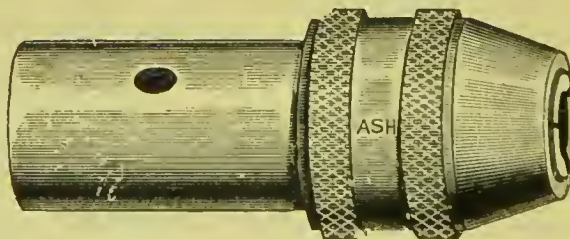
ASH'S LATHE HEAD No. 1.

ABOUT HALF-SIZE.

Lathe Head No. 1, as illustrated, with Grinding Chuck B and £ s. d.
 Spanner C 1 5 0

**FULL-SIZE ILLUSTRATION OF SCREW
 CLAMP ATTACHMENT,**

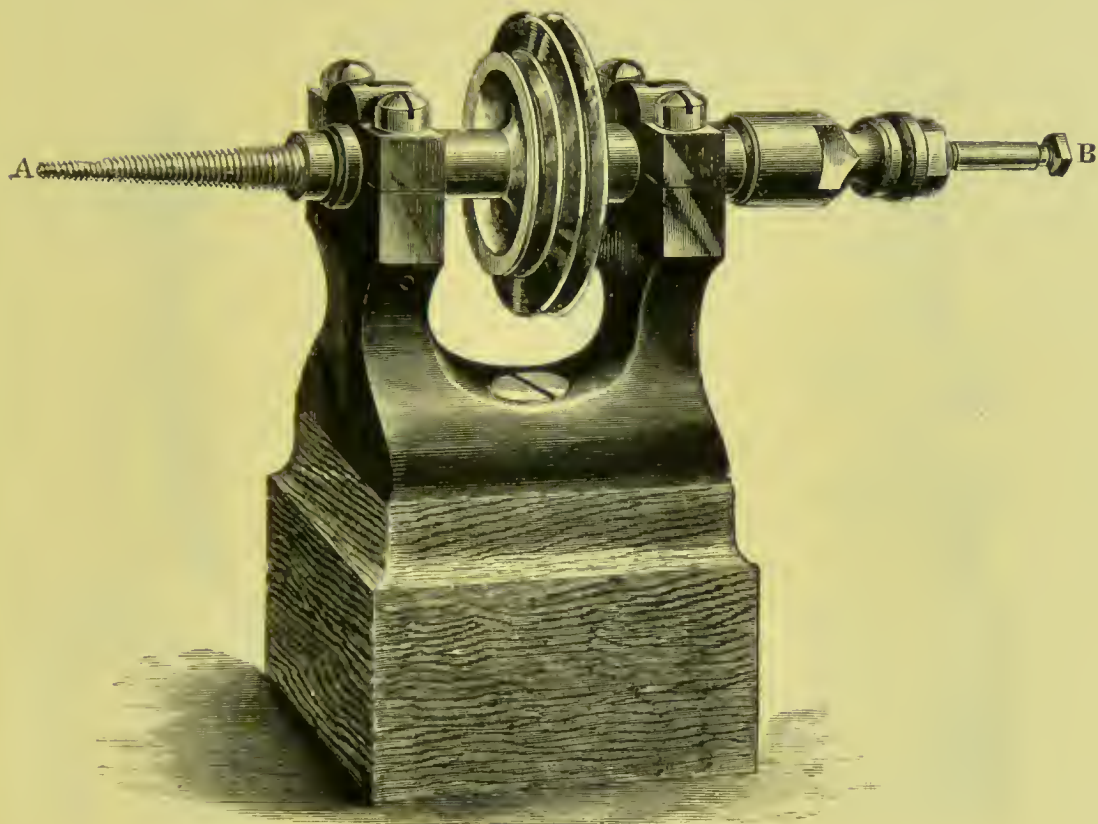
TO TAKE THE PLACE OF GRINDING CHUCK B
 ON Nos. 1 AND 2 LATHE HEADS.



Price, separately, to fit existing Lathe Heads Nos. 1 and 2 . . . s. d.
 14 0

Chucks to fit this Screw Clamp are shown on page 257.

ASH'S LATHE HEAD No. 2.



NEARLY HALF-SIZE.

Lathe Head No. 2, as illustrated, with Polishing Chuck A, Grinding Chuck B, and Spanner C, shown on previous page £ s. d. 1 15 0

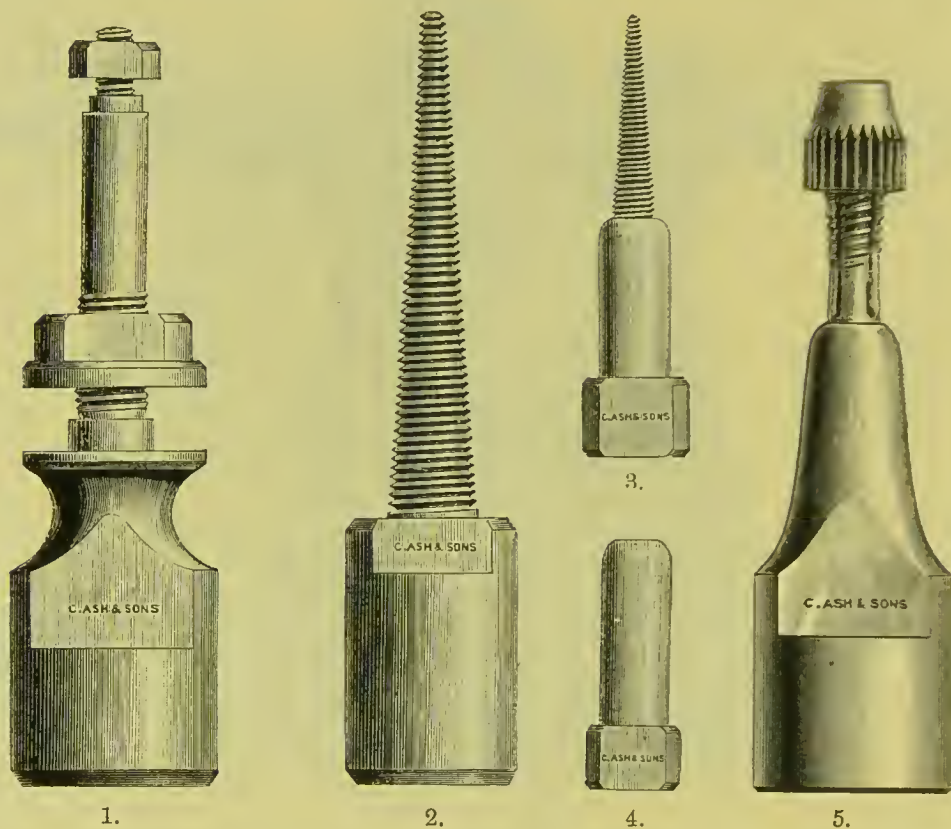
GUT FOR LATHE BANDS.

Sizes: 
Nos. 6 7 8 9 10 11 12 13 14 15 16

Per hank . 6/0 5/3 4/6 3/9 3/0 2/3 2/0 1/6 1/3 1/0 0/10

The hanks are 20½ feet long—sufficient for two bands for our workroom lathes.

| | | |
|--|----------|------------|
| Hook and Eyes, any size | per pair | s. d. 0 10 |
| Leather Band for Lathes, recommended | „ foot | 0 2 |
| Extra Hooks for use with ditto | „ doz. | 0 6 |

CHUCKS FOR LATHE HEADS Nos. 1 and 2.

FULL SIZE.

| | | | s. | d. |
|--|----------|------|----|----|
| Chuck to carry 2 Corundum Wheels | (Fig. 1) | each | 7 | 0 |
| „ „ Polishing Brushes. | („ 2) | „ | 3 | 9 |
| „ „ Small Corundum Wheels and | | | | |
| Polishing Brushes | („ 3) | „ | 3 | 0 |
| „ „ Corundum Countersinks | („ 4) | „ | 3 | 0 |
| „ „ Engine Burs and Drills, with | | | | |
| Screw Clamp | („ 5) | „ | 10 | 6 |

Fig. 5 Chuck can be had to fit any Lathe Head ; when ordering, please specify for which it is required.

Other Chucks supplied to order.

ARTICLES, VARIOUS.

| | £ | s. | d. |
|---|---|----|----|
| Ash's Cone-Chuck, Lathe Head No. 3, with Iron Upright . . | 1 | 10 | 0 |
| „ „ „ „ „ Gun-Metal Upright | 2 | 0 | 0 |
| Chucks, various sizes (Nos. 1-10). each | 0 | 3 | 0 |
| „ to hold 2 Wheels (No. 11) „ | 0 | 6 | 0 |

Flasks :

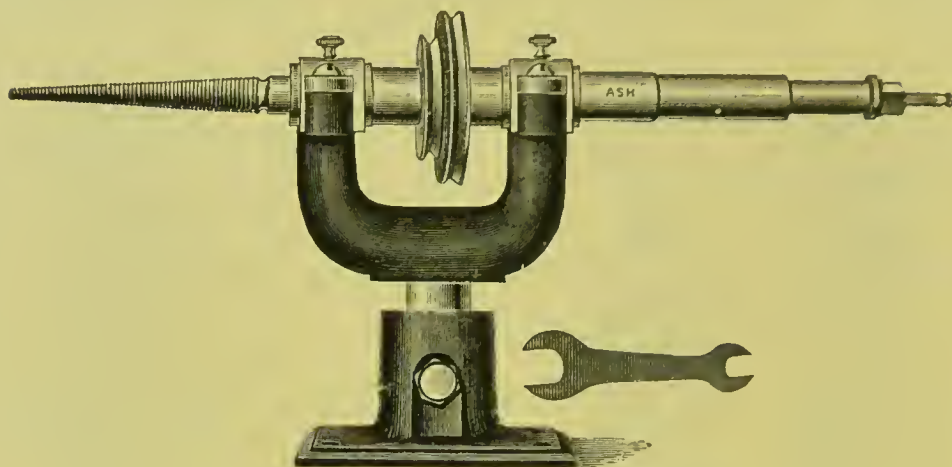
| | | | | | | | | |
|---|---|---|---|---|----|---|----|---|
| Lennox's, for Uppers, in Gun-Metal | . | . | . | . | ,, | 0 | 7 | 6 |
| ,, ,, Lower, ,, | . | . | . | . | ,, | 0 | 7 | 6 |
| Whitehouse's, in Gun-Metal, Small | . | . | . | . | ,, | 0 | 9 | 6 |
| ,, ,, Medium | . | . | . | . | ,, | 0 | 11 | 0 |
| ,, ,, Large | . | . | . | . | ,, | 0 | 14 | 0 |

The "Emperor," Mr. W. Stringfield's—

| | | | |
|--|----------|-----------|----------|
| In Gun-Metal, ordinary size | 0 | 9 | 0 |
| ., large size | 0 | 9 | 0 |
| Lifter for the above | 0 | 1 | 0 |
| Garretson's Articulating Guide, for securing a correct bite . | 0 | 17 | 6 |

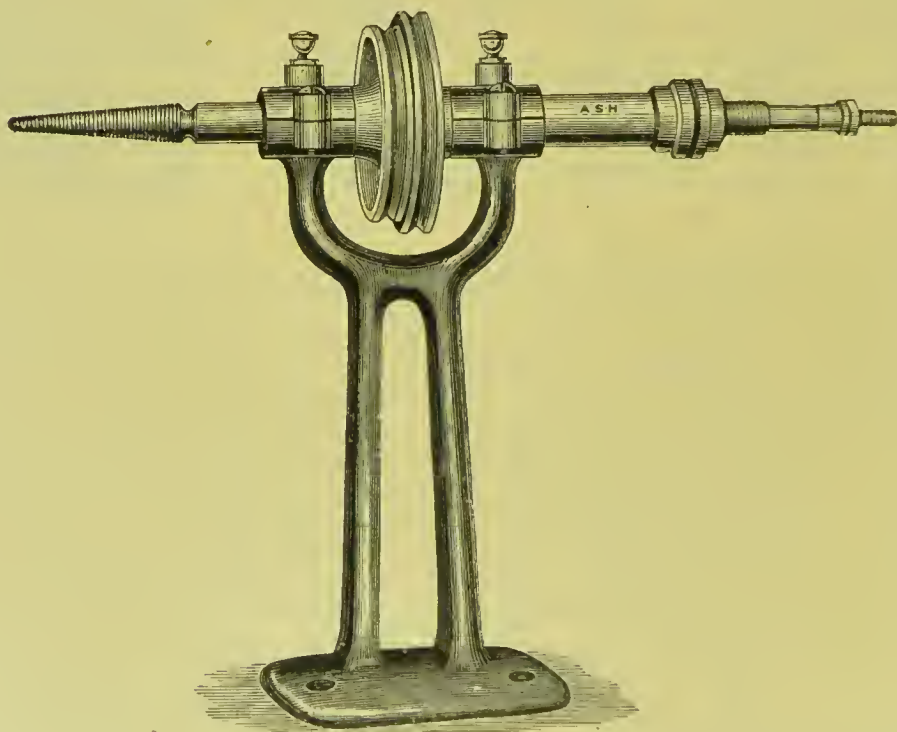
Steel Burs and Wheels for Vulcanite Work :

| | | | | |
|---|------|---|---|---|
| Burs, Bud form (No. 1) | each | 0 | 4 | 0 |
| „ Blunt Cone form (No. 2) | „ | 0 | 4 | 0 |
| „ Round form (No. 3) | „ | 0 | 4 | 0 |
| „ Oval form (No. 4) | „ | 0 | 4 | 0 |
| Wheels, 1 $\frac{1}{4}$ in. diameter (No. 5) | „ | 0 | 4 | 0 |
| „ 1 $\frac{1}{2}$ in. „ („ 5) | „ | 0 | 4 | 6 |
| „ 2 in. „ („ 5) | „ | 0 | 5 | 0 |
| Steel Chuck , to carry the above Burs and Wheels | | 0 | 6 | 6 |

ASH'S ADJUSTABLE LATHE HEAD No. 4.

ABOUT ONE-THIRD SIZE.

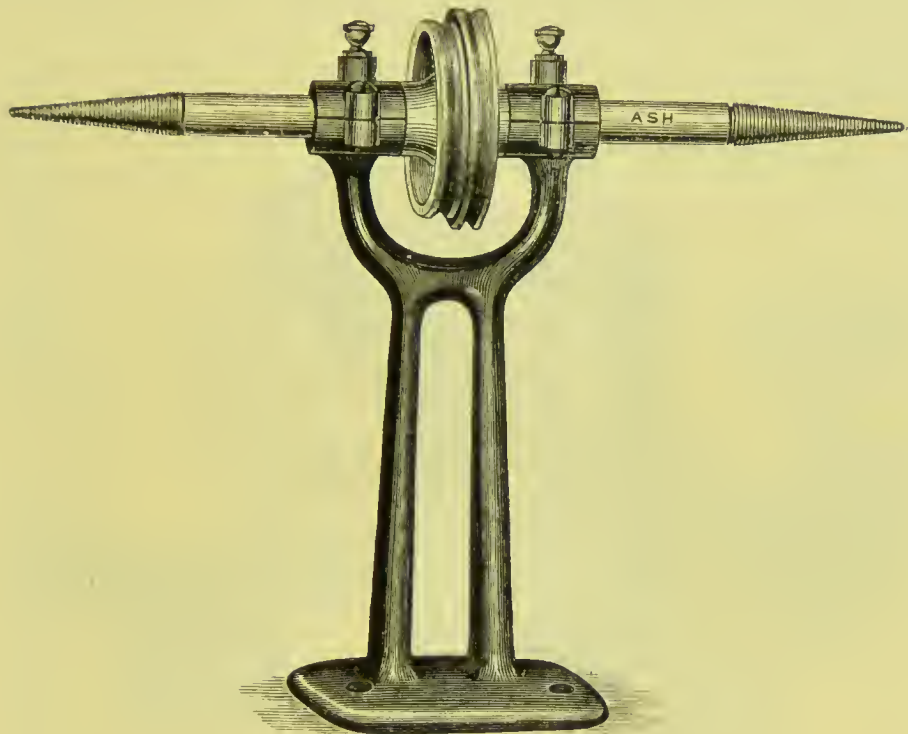
| | | | |
|--|---|----|----|
| | £ | s. | d. |
| With Grinding Chuck to carry four wheels, Polishing Chuck, and Spanner | 1 | 0 | 0 |

ASH'S LATHE HEAD No. 5.

NEARLY HALF-SIZE.

| | | |
|---|----|----|
| | s. | d. |
| With Grinding Chuck to carry three wheels, Polishing Chuck, and Spanner . | 16 | 6 |

ASH'S LATHE HEAD No. 6.



NEARLY HALF-SIZE.

| | | |
|-------------------------------------|----|----|
| With two Polishing Chucks | s. | d. |
| | 12 | 6 |

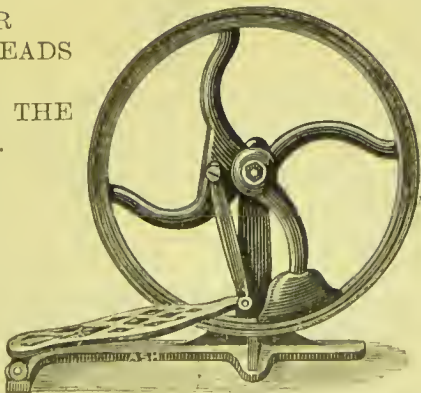
FIG. 1. ASH'S DRIVING WHEELS.



DIMENSIONS: 21 in. high;
Base 9 in. wide by 21 in. long.

FIG. 2.

SUITABLE FOR
DRIVING LATHE HEADS
WHICH
ARE MOUNTED ON THE
WORK-BENCH.



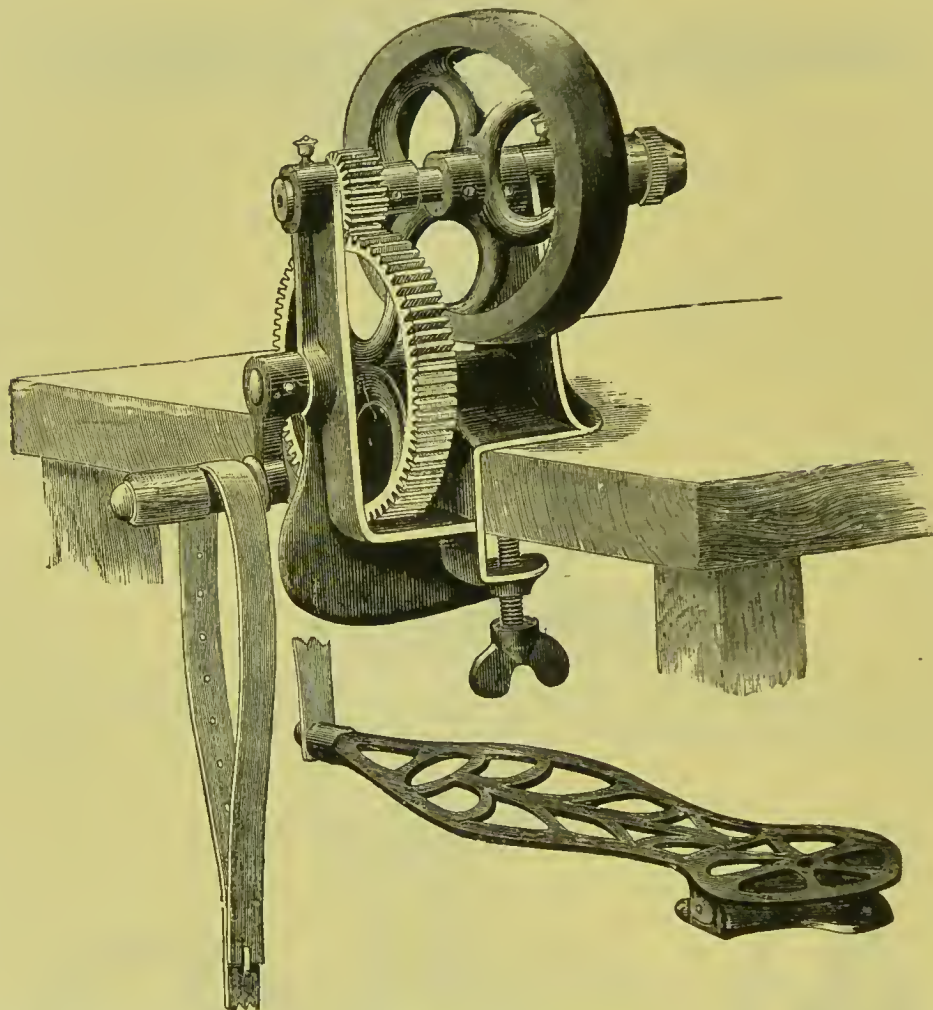
DIMENSIONS: 19 in. high;
Base 11 in. wide by 21 in. long.

| | | | | |
|-----------------|----------|---|----|----|
| | | £ | s. | d. |
| Price | (Fig. 1) | 1 | 17 | 0 |
| „ | („ 2) | 1 | 2 | 6 |

CONE=JOURNAL HAND AND FOOT LATHE.

(ASH'S ENGLISH MANUFACTURE.)

FIG. 6.



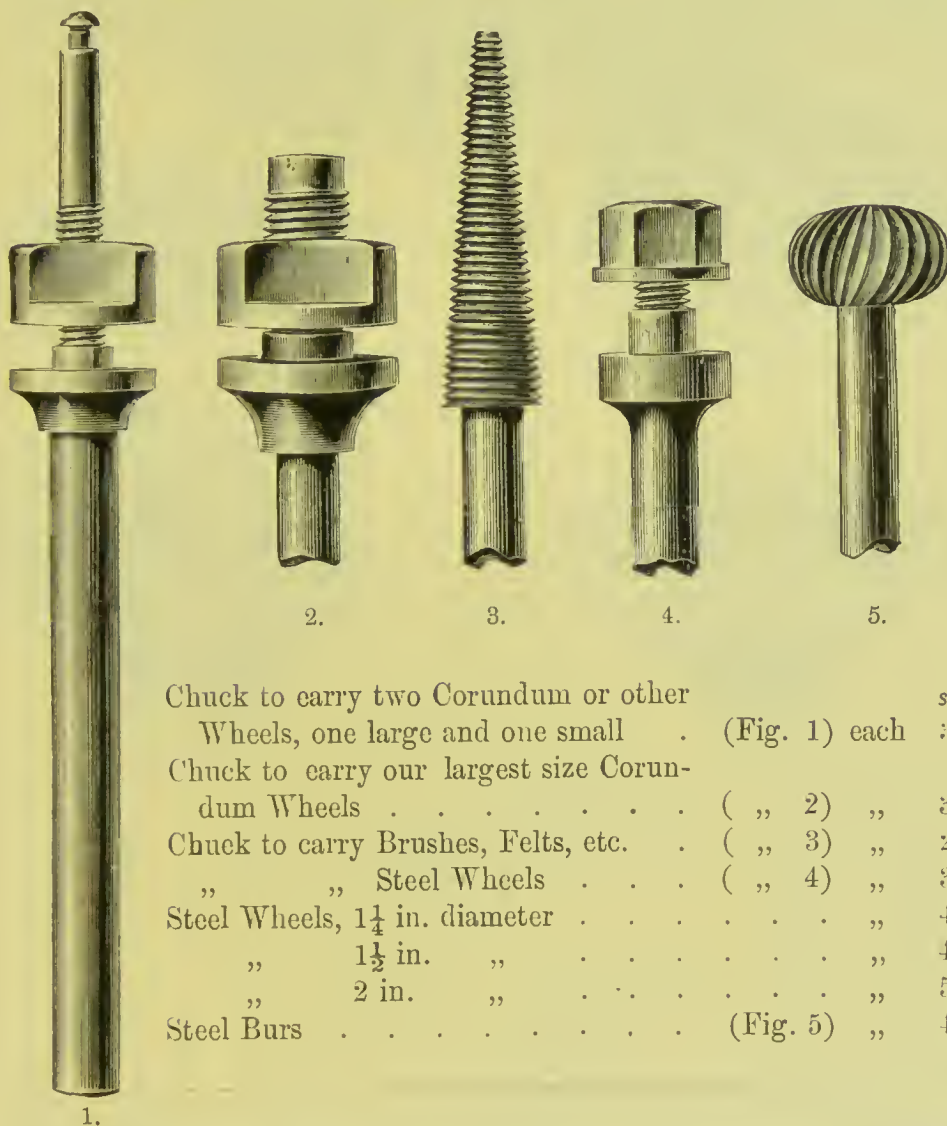
This Lathe is made with an adjustable cone, split at both ends, which acts as a double clamp for holding the stems of the chucks, thus giving them extra long bearings. The working parts are well shown in the cut. It is very suitable for a branch practice or when visiting, and is extremely portable, the total weight being only 8 lbs. We can recommend it as powerful enough for the heaviest work in the dental laboratory.

| | | | | |
|--|--|---|----|----|
| Lathe complete, with Treadle and Strap, Spanner, and three | | £ | s. | d. |
| Chucks, Figs. 1, 2 and 3, shown on next page | | 1 | 15 | 0 |
| The same, minus Strap and Treadle | | 1 | 11 | 6 |
| Parts separately | Adjustable Cone for renewing | 0 | 3 | 0 |
| | Treadle | 0 | 3 | 0 |
| | Strap | 0 | 1 | 6 |
| | Spanner | 0 | 1 | 3 |

CHUCKS, Etc.,

FOR CONE-JOURNAL HAND AND FOOT LATHE, Fig. 6, shown on the previous page,

AND FOR SCREW CLAMP ATTACHMENT, shown on page 250.



| | | |
|---|----|----|
| Chuck to carry two Corundum or other
Wheels, one large and one small (Fig. 1) each | s. | d. |
| Chuck to carry our largest size Corun-
dum Wheels („ 2) „ | 3 | 6 |
| Chuck to carry Brushes, Felts, etc. („ 3) „ | 2 | 0 |
| „ „ Steel Wheels („ 4) „ | 3 | 6 |
| Steel Wheels, 1¼ in. diameter „ | 4 | 0 |
| „ 1½ in. „ „ | 4 | 6 |
| „ 2 in. „ „ | 5 | 0 |
| Steel Burs (Fig. 5) „ | 4 | 0 |

CAMEL-HAIR PENCILS OR BRUSHES.



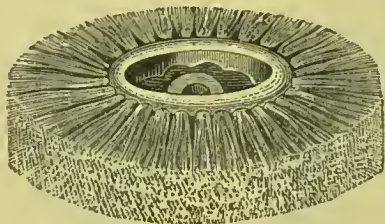
LARGE SIZE.

Supplied in large, medium, and small sizes.

| | | |
|---|----|----|
| Price, any size, or assorted per doz. | s. | d. |
| | 1 | 0 |
| | s | |

LATHE BRUSHES, FOR POLISHING.

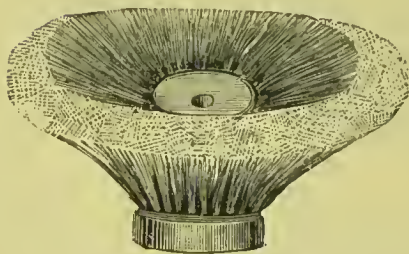
Made of the best Russian Bristles, which are so securely set in the Hubs that they do not require cementing in position, as is the case with so many kinds of Lathe Brushes of inferior quality.



STRAIGHT.



CONVERGING.



CUP-SHAPE.



HUB-SHAPE.

Rows of bristles in each Brush :

| | | | | | | | | | | s. | d. |
|-------------|---|-----------|---------------|----------|------------------------|---|---|---|---------|----|----|
| Two Rows | 2 in. | diameter, | Hard or Soft, | Straight | | | | | each | 0 | 6 |
| Two | 3 in. | " | " | " | Straight or Converging | | | | " | 0 | 7 |
| Three | 2½ in. | " | " | " | " | " | " | " | " | 0 | 7 |
| Three | 3 in. | " | " | " | " | " | " | " | " | 0 | 8 |
| Four | 3 in. | " | " | " | " | " | " | " | " | 0 | 11 |
| Five | 3 in. | " | " | " | " | " | " | " | " | 1 | 1 |
| Six | 3 in. | " | " | " | " | " | " | " | " | 1 | 3 |
| Six | 3½ in. | " | " | " | " | " | " | " | " | 1 | 4 |
| Six | 4 in. | " | " | " | " | " | " | " | " | 2 | 0 |
| Cup-shape, | two Rows, | 2½ in. | diameter | | | | | | " | 1 | 6 |
| " | three " | 2¾ in., | 3 in. | diameter | | | | | " | 1 | 9 |
| Hub-shape, | 1½ in. | diameter | | | | | | | " | 1 | 9 |
| " | 1½ in. | diameter | | | | | | | " | 1 | 9 |
| Goat's-hair | Lathe Brushes, 2 in. and 3 in. diameter | | | | | | | | per row | 0 | 5 |

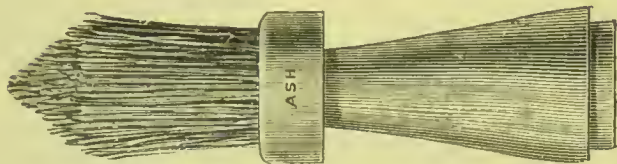
Lathe Brushes of other sizes made to order by the dozen.

A discount of 10 per cent. is allowed when Lathe Brushes are bought by the dozen.

| | | s. | d. |
|---|------|----|----|
| Buff Sticks for Polishing, flat and round | each | 0 | 2 |

PALATE LATHE BRUSHES.

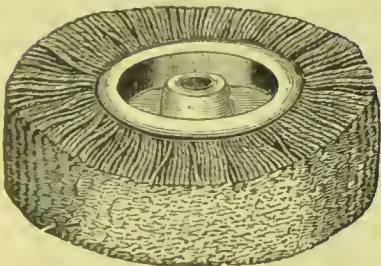
BEST RUSSIAN BRISTLES.



LONG.

Made in two lengths, long and short, either kind . . . each s. d.
0 6

Wheels and Brushes.



COTTON WHEEL.

COTTON WHEELS

FOR POLISHING.

| | s. | d. |
|------------------|----|----|
| Large | 1 | 3 |
| Medium | 1 | 0 |

| | s. | d. |
|---|------|-----|
| Scratch Brushes, brass wire, for Lathes, coarse | each | 2 0 |
| " " " " fine | " | 2 6 |
| " " " for Hand, coarse | " | 0 6 |
| " " " " fine | " | 0 6 |
| " " steel wire, 3 rows | " | 3 6 |

POLISHING BRUSHES.

WITH BONE HANDLES.



ABOUT HALF-SIZE.

| | s. | d. |
|---|------|-----|
| Best Russian Bristles, four rows, hard or soft | each | 1 0 |
| " " " six " " | " | 1 3 |
| Wool Brush, with wooden handle | " | 1 0 |
| | | s 2 |

MOORE'S UNIVERSAL SPRING APRON.

There are no buttons to fasten on this Apron, and no strings to tie or untie; it can be slipped on or off in a moment, is very useful for general wear, but invaluable to the Dentist who spends a portion of his time in the workroom, and is as easily washed as a handkerchief after the springs are removed from the loops in which they are inserted.

| | | |
|-----------------|----|----|
| | s. | d. |
| Price | 3 | 9 |



OPERATOR'S SPRING APRON.

In fine quality black or grey cashmere.



For protecting the coat while finishing and polishing fillings, or doing anything about the mouth which causes splashing. It is also equally useful for wear by the patient to protect the dress during operations.

Both kinds are neat and rich in appearance, wash well, and, like the Workroom Apron shown above, can be put on or removed in a moment.

In ordering, state whether black or grey is wanted.

| | | |
|------------------------------|------|-----|
| | s. | d. |
| Price, either kind | each | 3 6 |

Operator's Spring Apron, in black or grey cashmere, same

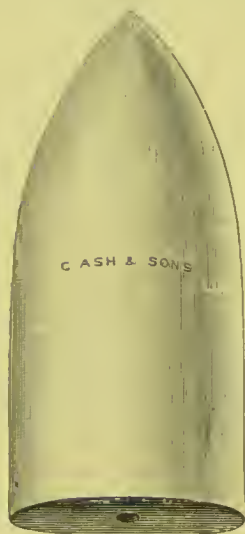
| | | |
|--|---|---|
| length as the Workroom Apron shown above | 5 | 6 |
|--|---|---|

FELT CONES AND WHEELS.

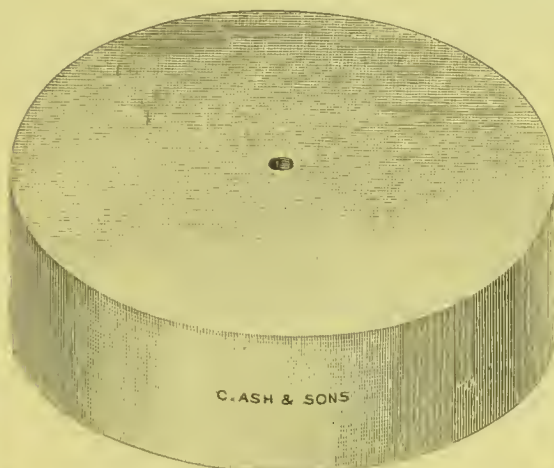
(ENGLISH MANUFACTURE.)

Made from specially selected material of the best quality. They are largely used and recommended for fine polishing.

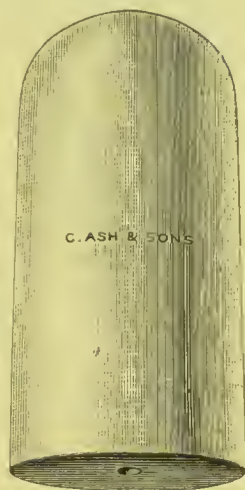
The illustrations of the Cones are full size, and the circles on the lower part of the page show the diameters of the large, medium, and small wheels.



LARGE POINTED CONE.



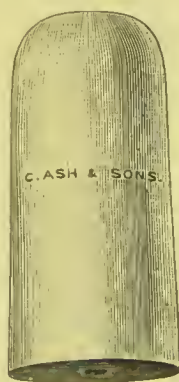
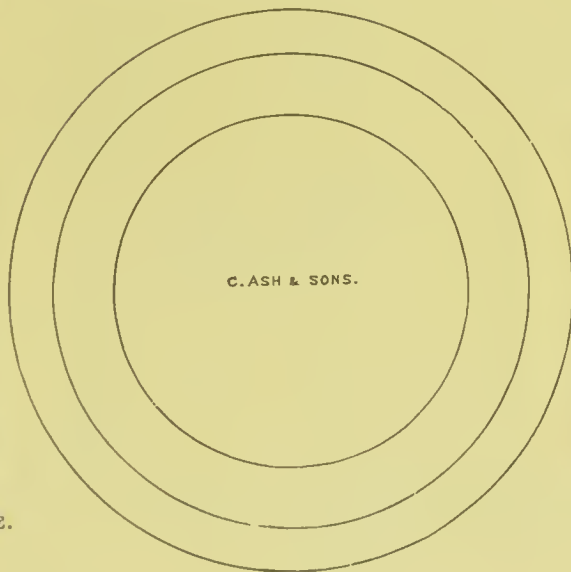
WHEEL.



LARGE ROUNDED CONE.



SMALL POINTED CONE.

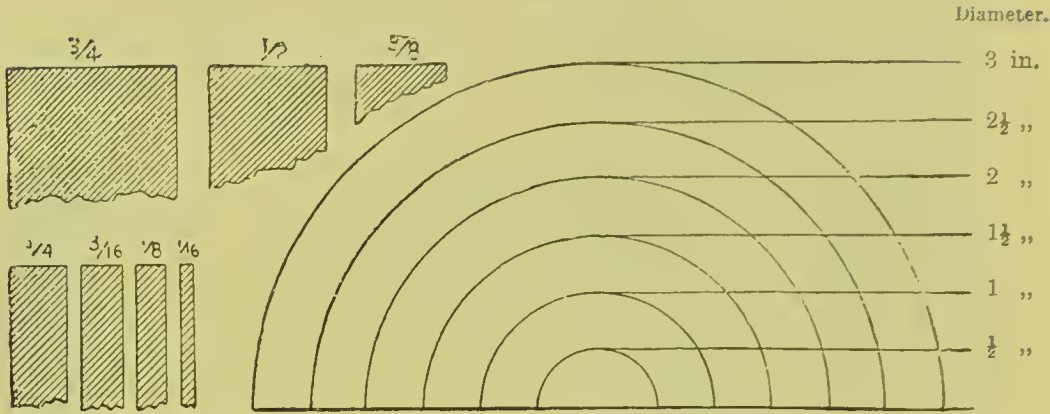


SMALL ROUNDED CONE.

| | | s. | d. |
|---------------------------------------|------|----|----|
| Felt Wheels, large and medium | each | 1 | 0 |
| „ small | „ | 0 | 8 |
| Felt Cones, large, pointed or rounded | „ | 0 | 10 |
| „ small „ | „ | 0 | 5 |

CARBORUNDUM LATHE WHEELS.

SIZES AND THICKNESSES.



Made in the following grits :—For cutting or grinding : 120 coarse ; 150 medium ; 180 medium fine. For polishing and sharpening : 220 fine. They may all be used either wet or dry with equally good results, and they are guaranteed not to gum or wear smooth.

SQUARE EDGE.

| DIAMETER. | THICKNESS— $\frac{1}{8}$ inch. | | $\frac{1}{4}$ inch. | |
|------------------------|--------------------------------|----|---------------------|----|
| | s. | d. | s. | d. |
| 1 inch | 0 | 9 | 0 | 9 |
| 1 1/2 inches | 0 | 11 | 0 | 11 |
| 2 „ | 1 | 2 | 1 | 2 |
| 2 1/2 „ | 1 | 2 | 1 | 2 |
| 3 „ | 1 | 6 | 1 | 6 |

ROUND EDGE.

| DIAMETER. | THICKNESS— $\frac{1}{8}$ inch. | | $\frac{1}{4}$ inch. | |
|--|--------------------------------|----|---------------------|-----|
| | s. | d. | s. | d. |
| 5/8 inch | 0 | 7 | 0 | 7 |
| 1 „ | 0 | 10 | 0 | 10 |
| 1 1/2 inches | 1 | 1 | 1 | 1 |
| 2 „ | 1 | 3 | 1 | 3 |
| 2 1/2 „ | 1 | 3 | 1 | 3 |
| 3 „ | 1 | 7 | 1 | 7 |
| Thick centre, thin edge, 1 1/4 inches diameter | | | each | 1 1 |
| „ „ 3/4 „ „ | | | „ | 1 8 |

Other sizes supplied to order.

A discount of 10 per cent. is allowed off purchases of Ten Shillings' worth of Carborundum.

CARBORUNDUM FILES.



ROUND. HALF-ROUND. ROUND-EDGE. TRIANGULAR. OBLONG.

Price, any kind each ^{s. d.} 2 0

ASH'S CORUNDUM WHEELS, FILES, Etc.

From our long experience in the use of Corundum, we are able to select the kind and quality best adapted for dental purposes. Our method of crushing it prevents as much as possible dulling the sharp edges of the particles while reducing them to their several grits. It is this cutting quality which has obtained for our Wheels, Files, etc., the high estimation in which they are held both in England and abroad.

The Wheels are adapted to fit all the Lathe Chucks of our manufacture.

For remarks concerning the Files see page 268.

WHEELS (see next page):—

| SIZE. | | DIAMETER. | | THICK. | | THIN. | |
|--------|-------------|-------------------|--------------------|--------------------------|------|-------|----|
| | | | | s. | d. | s. | d. |
| No. 1, | round edge | . . . | $\frac{1}{2}$ inch | . . . | each | 0 | 2 |
| „ 2, | „ | . . . | $\frac{3}{4}$ „ | . . . | „ | 0 | 2 |
| „ 3, | „ | . . . | 1 „ | . . . | „ | 0 | 3 |
| „ 4, | „ | . . . | $1\frac{1}{2}$ „ | . . . | „ | 0 | 5 |
| „ 5, | „ | . . . | 2 „ | . . . | „ | 0 | 6 |
| „ 6, | „ | . . . | $2\frac{1}{4}$ „ | . . . | „ | 0 | 7 |
| „ 7, | „ | . . . | 3 „ | . . . | „ | 1 | 3 |
| „ 8, | „ | . . . | $3\frac{3}{4}$ „ | . . . | „ | 2 | 0 |
| „ 9, | „ | . . . | $4\frac{1}{2}$ „ | . . . | „ | 3 | 0 |
| „ 10, | square edge | . . . | 1 „ | . . . | „ | 0 | 4 |
| „ 11, | „ | . . . | $1\frac{1}{8}$ „ | . . . | „ | 0 | 5 |
| „ 12, | „ | „ not illustrated | $2\frac{1}{2}$ „ | $\frac{1}{4}$ inch thick | „ | 1 | 0 |
| „ 13, | „ | „ | $3\frac{1}{8}$ „ | „ | „ | 1 | 6 |
| „ 14, | „ | „ | $2\frac{1}{4}$ „ | $\frac{3}{16}$ „ | „ | 0 | 9 |

No. 7, round edge, is also made in medium thickness, price 1s.

Nos. 1 to 7 are $\frac{1}{16}$ to $\frac{1}{4}$ inch thick.

„ 8 and 9 are $\frac{1}{4}$ to $\frac{1}{2}$ inch thick. !

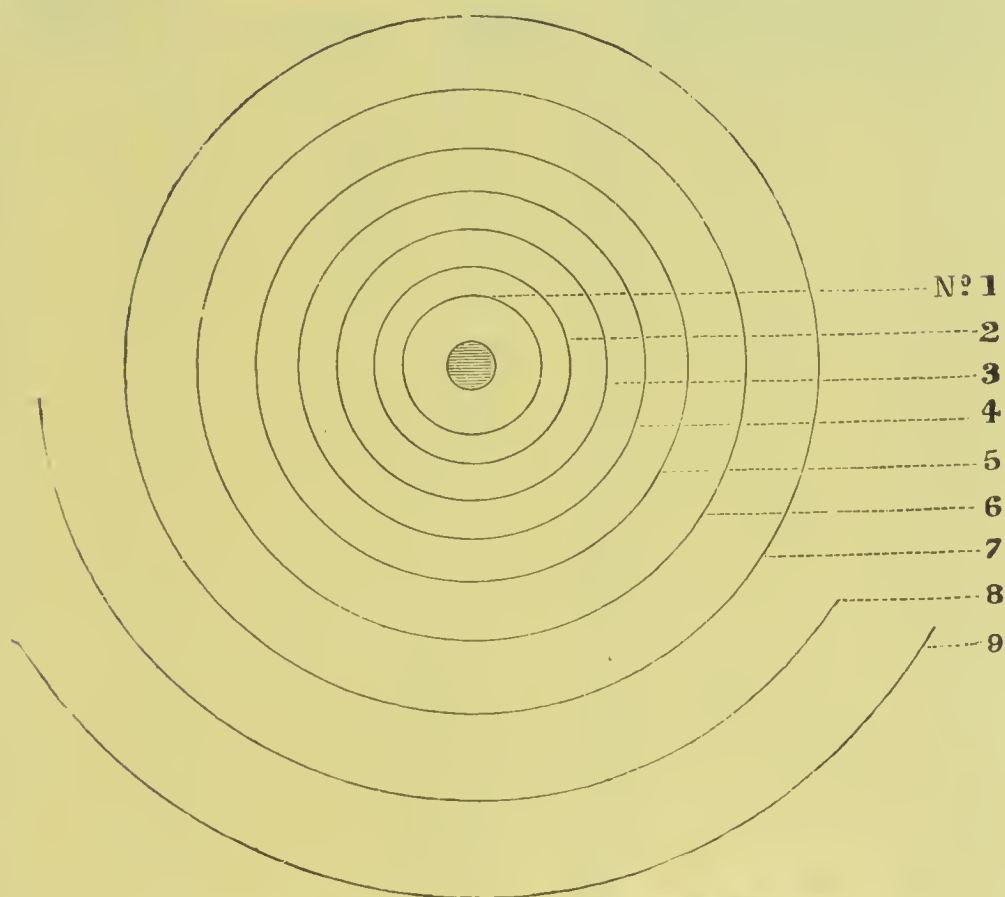
„ 10 and 11 are made in the thicknesses illustrated.

All the above Wheels are supplied in three grits, known as fine, medium, and coarse; when ordering, please be careful to state which grit is required.

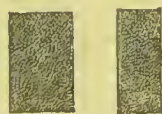
A discount of 10 per cent. is allowed when Corundum Wheels and Files are purchased to the value of 10s.

ASH'S CORUNDUM WHEELS.

(For Prices see previous page.)



10.



THICK. THIN.

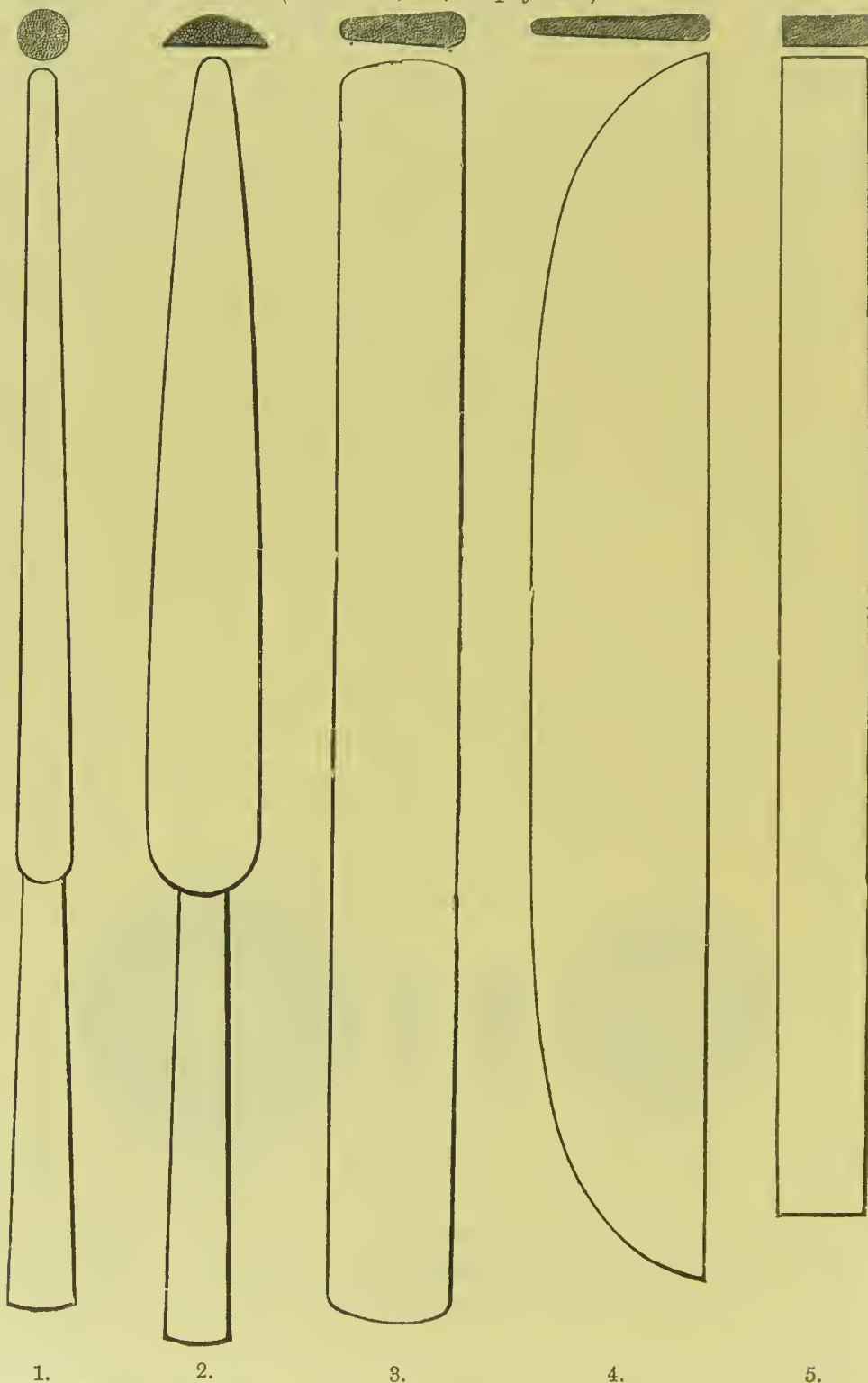


11.

Nos. 1 to 9 are made with round edges.

„ 10 and 11 „ „ square „

„ 12, 13 and 14, not illustrated, are also made with square edges.

ASH'S CORUNDUM FILES.*(For Prices, etc., see page 268.)*

1. 2. 3. 4. 5.
The sections over the top of the outlines show the middle of each File.

ASH'S CORUNDUM FILES.

(For Prices, etc., see next page.)



The sections over the top of the outlines show the middle of each File.

SCULPTORS.

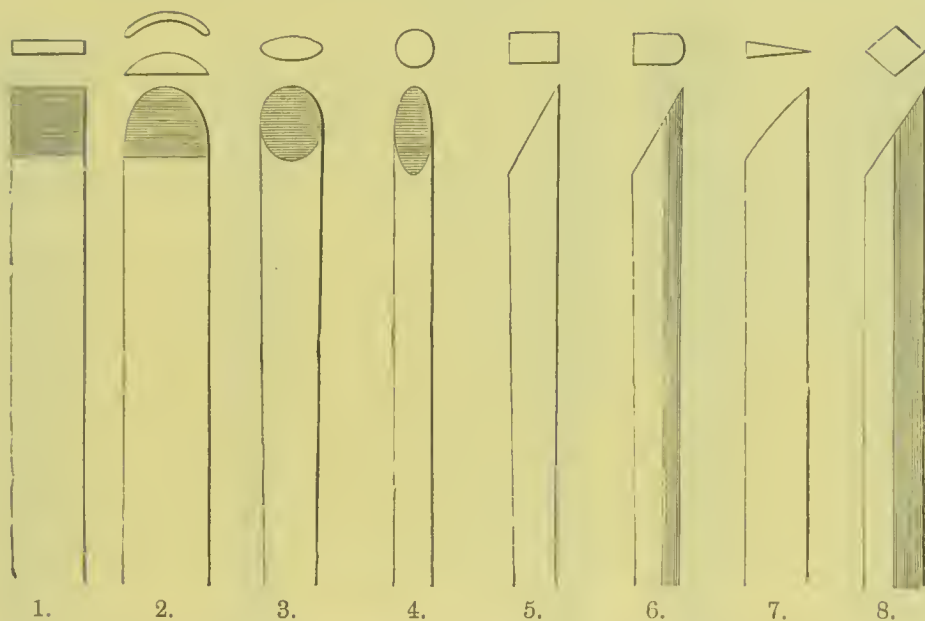


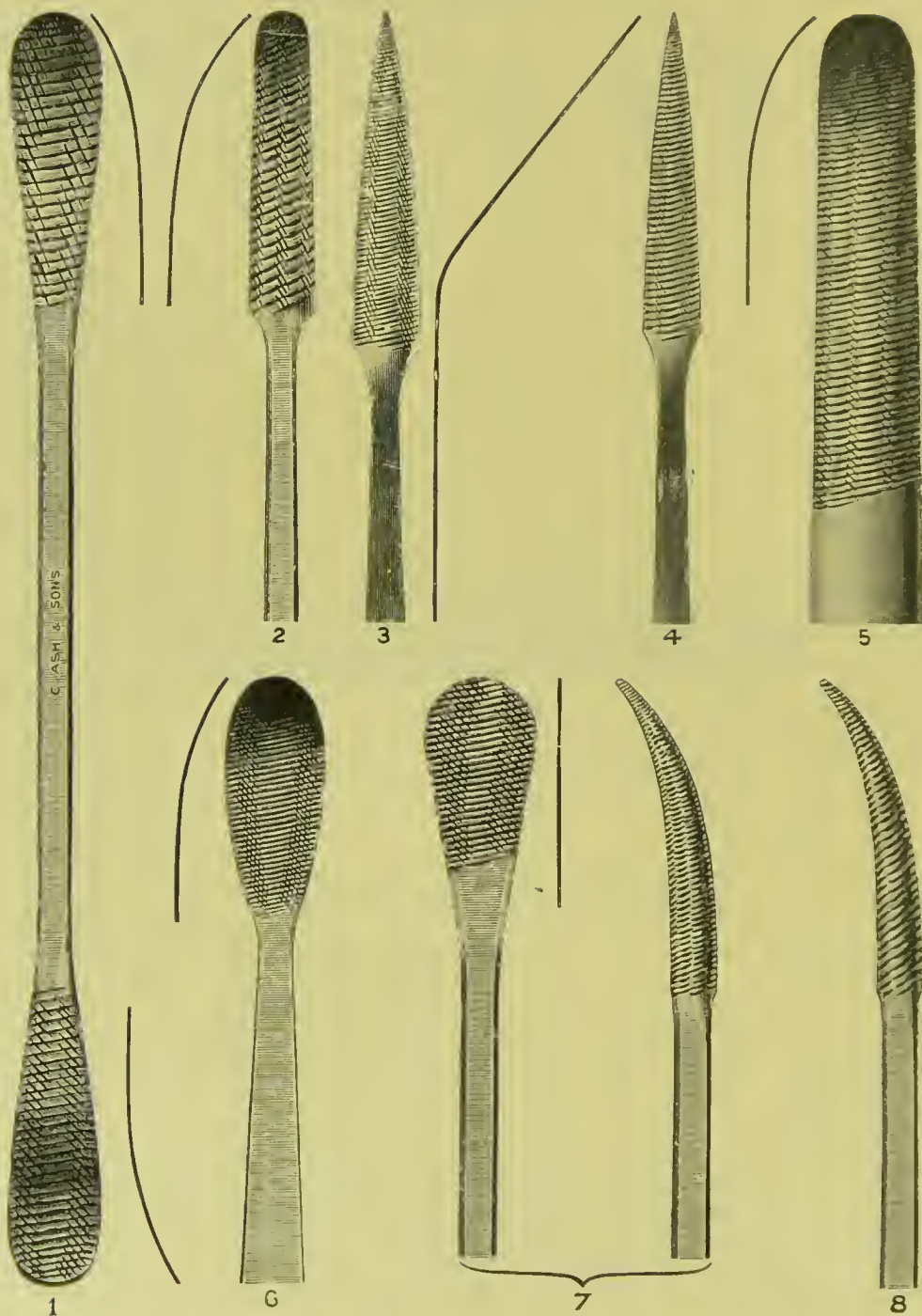
FIG. 9 (Right side).

The illustrations represent the broad sizes.

The top section over Fig. 2 shows a Gouge or Hollow Sculptor.

| | | | | Per doz. | Each. |
|--|------------------------------|---|----------|----------|-------|
| | | | | s. d. | s. d. |
| Flat, | broad, medium, and narrow | . | (Fig. 1) | 3 9 | 0 4 |
| Half-round, | „ „ „ | . | („ 2) | 3 9 | 0 4 |
| Gouges, | „ „ „ | . | („ 2) | 5 6 | 0 6 |
| Oval, | „ „ „ | . | („ 3) | 3 9 | 0 4 |
| Round, | „ „ „ | . | („ 4) | 3 9 | 0 4 |
| Flat Edge, | „ „ „ | . | („ 5) | 3 9 | 0 4 |
| Round „ | „ „ „ | . | („ 6) | 3 9 | 0 4 |
| Sharp „ | in one width, as illustrated | . | („ 7) | 3 9 | 0 4 |
| Gravers, | broad, medium, and narrow | . | („ 8) | 3 9 | 0 4 |
| Bevelled, Knife edge, | in right and left sides | | („ 9) | 5 6 | 0 6 |
| Wooden Handles for Sculptors, round, half-round, and pear-shaped | | | | 1 3 | 0 1½ |

RIFFLERS FOR VULCANITE WORK. (STUBS'.)



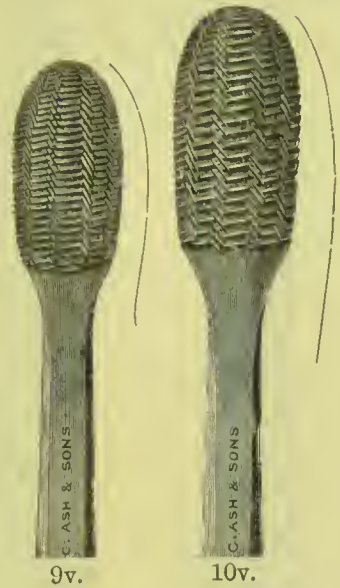
For Prices, etc., see next page.

RIFFLERS FOR VULCANITE WORK—*continued.*

(STUBS'.)

All double-ended except Fig. 5.

- Fig. 1. Oval, thin, curved, cut all over.
 „ 2. Half-round, curved, cut one side.
 „ 3. „ thin, bent, „
 „ 4. „ „ „ „
 „ 5. „ thick, curved, „
 „ 6. „ thin, „ „
 „ 7. Round one end, flat other end, cut all over.
 „ 8. „ both ends and curved, „ „
 „ 9. Half-round, curved, rough cut, both ends alike.
 „ 10. Half-round, curved, extra rough cut, both ends alike.



Price, any form each 0 7½

All kinds of Vulcanite and other Rifflers supplied to order.

GLASS CLOTH.

IN SHEETS.

Made in the following grades :—

| | | |
|-------|-------|------------------|
| No. 0 | . . . | Extra Superfine. |
| „ 1 | . . . | Superfine. |
| „ 1½ | . . . | Fine. |
| „ F/2 | . . . | Medium. |
| „ M/2 | . . . | Coarse. |
| „ S/2 | . . . | Extra Coarse. |

Price, any grade per quire s. d. 1 9

EMERY CLOTH.

IN SHEETS.

Made in the following grades :—

| | | |
|-------|-------|----------------|
| No. 0 | . . . | Superfine. |
| F F | . . . | Fine. |
| F | . . . | Medium Fine. |
| No. 1 | . . . | Medium. |
| „ 1½ | . . . | Coarse Medium. |
| „ 2 | . . . | Coarse. |
| „ 3 | . . . | Extra Coarse. |

Per quire, supplied to order s. d. 1 9



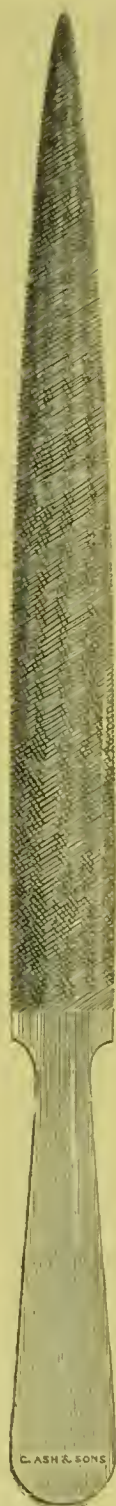
RASP.



EXTRA ROUGH.



ROUGH.



BASTARD.



SMOOTH.

STUBS' FILES—*continued.*

FOR METAL AND VULCANITE WORK, Etc.

The illustrations on the previous page show different styles of $4\frac{1}{2}$ -inch Files, full size. In the larger sizes the cuts run somewhat coarser. The Bastard and Smooth are intended for Metal work, the other kinds for Vulcanite work. When ordering, please be careful to state which kind is required, and in giving the length do not include the steel handle.

HALF-ROUND.

| | | | |
|--|------|----|----|
| Files and Rasps, with Steel handles, 4 inches long, any kind | each | s. | d. |
| „ „ „ „ $4\frac{1}{2}$ „ „ „ „ | | 0 | 8 |
| „ „ „ „ 5 „ „ „ „ | | 0 | 9 |
| „ „ „ „ 6 „ „ „ „ | | 0 | 10 |
| „ „ „ „ „ „ „ „ | | 1 | 0 |

DOUBLE - ENDED FILE.

FOR VULCANITE WORK.

(STUBS'.)

Half-round, one end extra rough, the other end rough.

| | | |
|-------|----|----|
| Price | s. | d. |
| | 1 | 2 |

| | | | |
|---------------------|----------|----|----|
| Tube Files, English | per doz. | s. | d. |
| „ „ French | „ | 1 | 6 |
| „ „ German, | | 2 | 9 |
| pointed | „ | 0 | 9 |

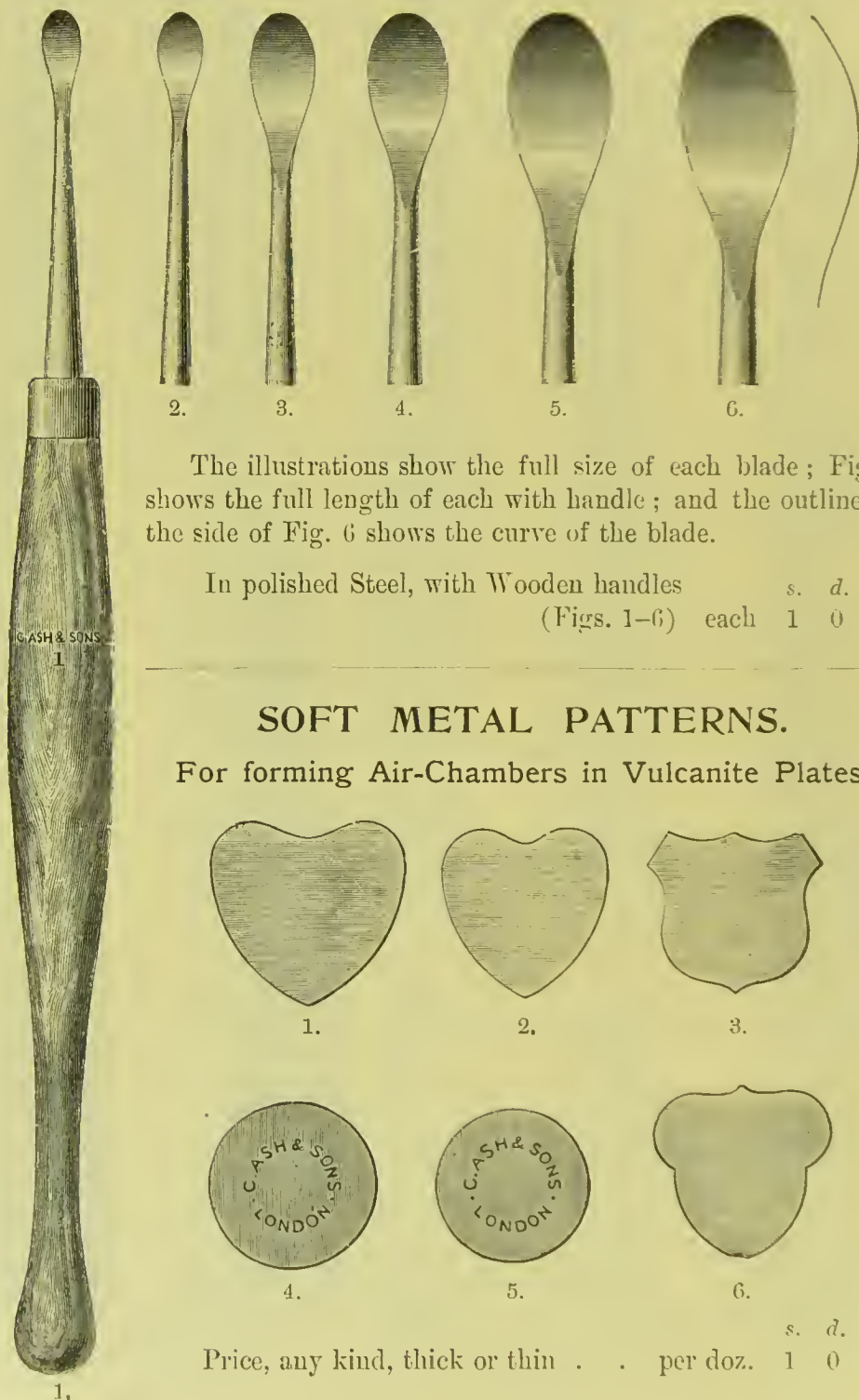
Other Files of every description supplied to order.

| | | | |
|--|------|----|----|
| Wire File Cleaner on wooden block, with blunt ends | each | s. | d. |
| Wire File Cleaner on wooden block, with handle | each | 0 | 6 |
| Tin Filing Tray, with sifter, cap, and rim | each | 0 | 6 |
| Tin Filing Tray, with sifter, cap, and rim | each | 3 | 9 |
| Wooden Handles for Tang Files | | | |
| each, from $1\frac{1}{2}$ d. to | | 0 | 3 |



8 inches long.

T

KINGSLEY'S VULCANITE FINISHERS.

The illustrations show the full size of each blade ; Fig. 1 shows the full length of each with handle ; and the outline on the side of Fig. 6 shows the curve of the blade.

In polished Steel, with Wooden handles s. d.
(Figs. 1-6) each 1 0

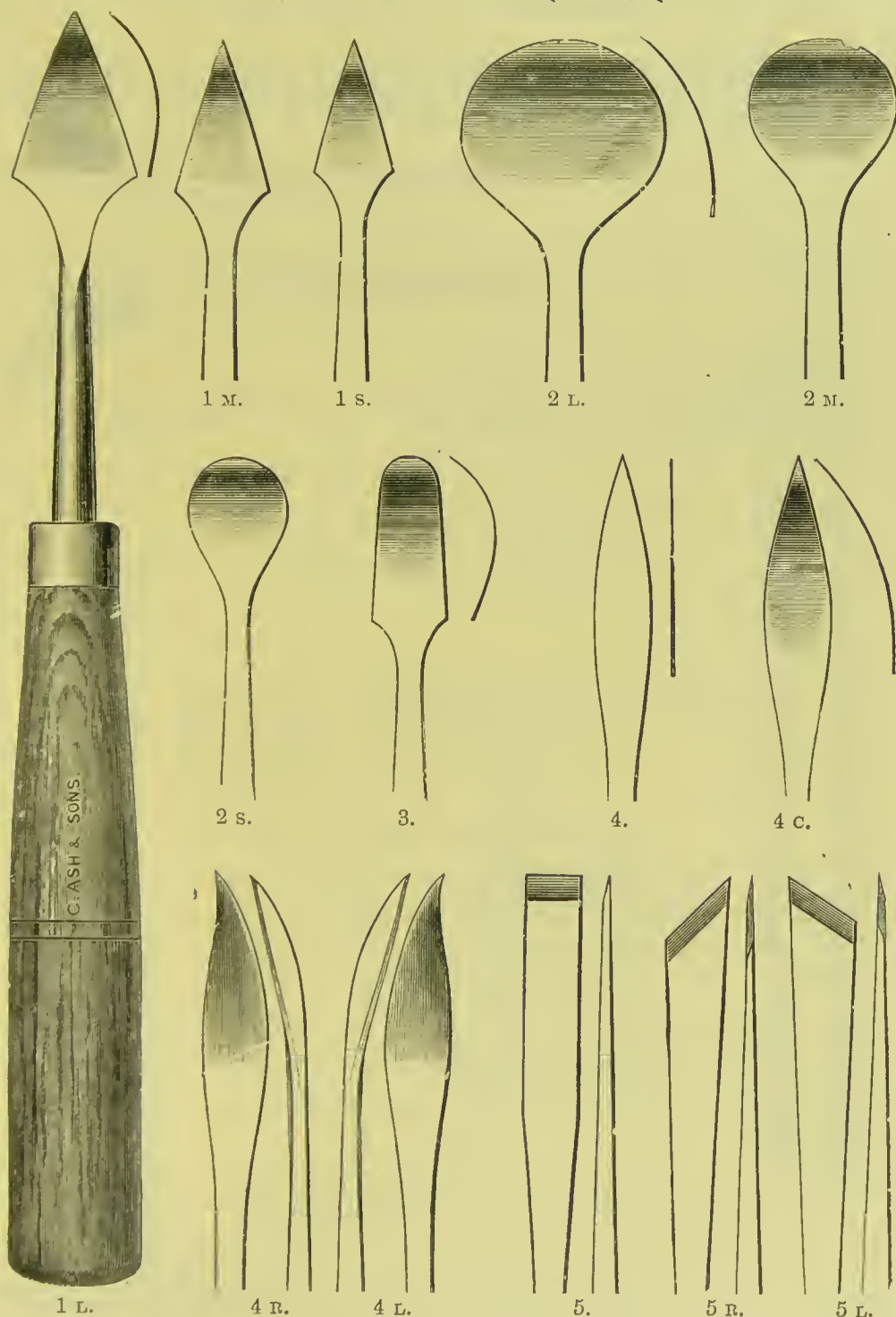
SOFT METAL PATTERNS.

For forming Air-Chambers in Vulcanite Plates.



Price, any kind, thick or thin . . . per doz. s. d.
1 0

VULCANITE SCRAPERS.



Price, any size or shape, in Wooden handle like Fig. 1 . . . each ^{s.} 1 ^{d.} 0
T 2

VULCANITE SCRAPERS—*continued.*

6.—Right.



7.—Left.



| | £. | d. |
|--|-----|------|
| Curved right and left, with Tang (Figs. 6, 7) each | 0 | 7 |
| Wooden Handles, round, half-round, inverted cone, and pear-shaped . per doz. | 1/3 | 0 1½ |

VULCANITE CUTTERS.

(MR. E. LLOYD-WILLIAMS'.)

Mr. Lloyd-Williams thus describes them :

These tools, made in two sizes, will be found useful for finishing vulcanite work. They are invaluable for clearing—and leaving smooth—the V-shaped spaces between teeth, and for defining the cervical border of the vulcanite in front and the shoulder of the tooth at the back. Using the thumb as a support, they may also be employed for “planing down” any surface which requires reducing.

8.

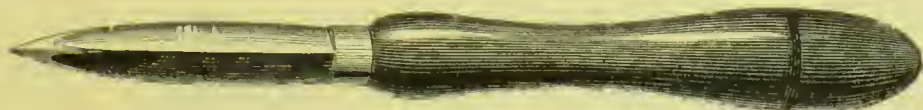
9.

| | £. | d. |
|------------------------------------|----|----|
| Price (Figs. 8 and 9) each | 0 | 8 |

Scrapers and Cutters of all kinds, for vulcanite work, made or obtained to order.

BAYONET SCRAPER WITH LONG BLADE.

FOR GOLD OR VULCANITE WORK.



6½ inches long.

s. d.

In polished Steel, with Ebony handle 2 0

BAYONET SCRAPER WITH SHORT BLADE.

(BERLIN KLINIK PATTERN.)

FOR GOLD OR VULCANITE WORK.



6½ inches long.

The rounded part of this tool near the blade affords a comfortable and safe hold for the thumb and finger.

s. d.

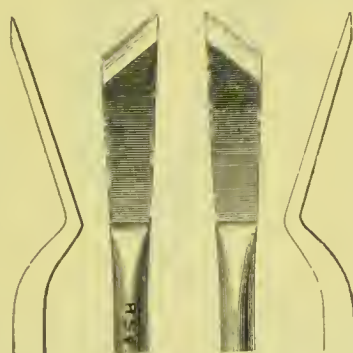
In polished Steel, with Ebony handle 2 0

PEARSON'S CHISELS.

FOR VULCANITE WORK.



STRAIGHT—FULL SIZE.



RIGHT.

LEFT.

The forms of these Chisels are so well shown in the accompanying illustrations that there is no need to describe them, and their utility is self-evident.

Price, any form—Straight, Right, or Left . . . s. d.
each . . . 1 0

PLATE GAUGE AND SCREW PLATE. (STUBS'.)



PLATE GAUGE.

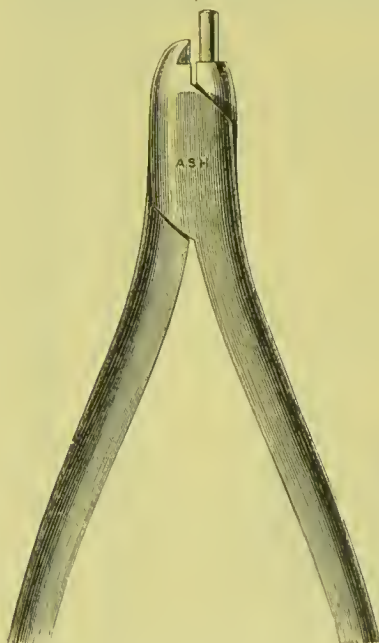


SCREW PLATE.

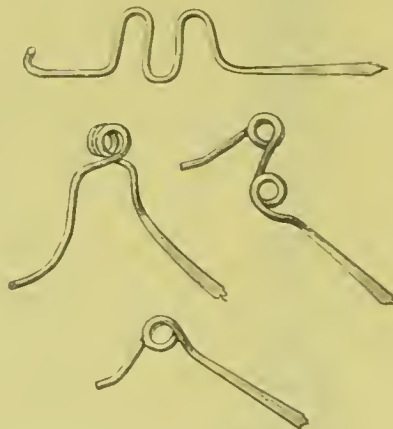
| | s. | d. |
|---|----|----|
| Plate Gauge, small sizes, 1-20 | 7 | 0 |
| Screw Plate, notched, with six taps | 5 | 3 |
| Extra Taps per set of 6 | 1 | 3 |

SPRING-MAKING PLIERS.

(INTRODUCED BY MR. G. NORTHCROFT.)



4½ inches long.

Different forms of Springs made
with the Pliers.

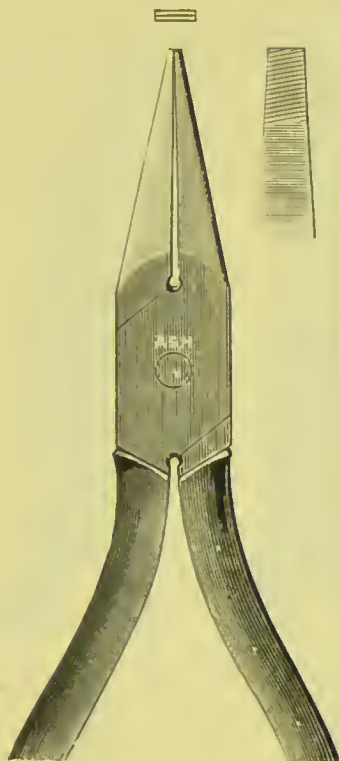
"These Pliers," states Mr. Northcroft, "are after a design of Prof. W. H. Dorrance, and will be found to greatly simplify the bending of pianoforte wire into Talbot coils, etc., for regulation cases. The springs produced by them are bent evenly and symmetrically, and are hence much neater and more efficient in use than springs that are made with a tool that is not specially adapted for the purpose."

The springs illustrated are drawn from patterns kindly furnished by Mr. Northcroft.

| | s. | d. |
|---------------------------|----|----|
| Price of Pliers | 4 | 6 |

SCREW-CUTTING PLIERS.

(SUGGESTED BY MR. R. P. LENNOX.)



With straight chops. Designed for use in the **Operating Room**.

ADAPTED FOR—

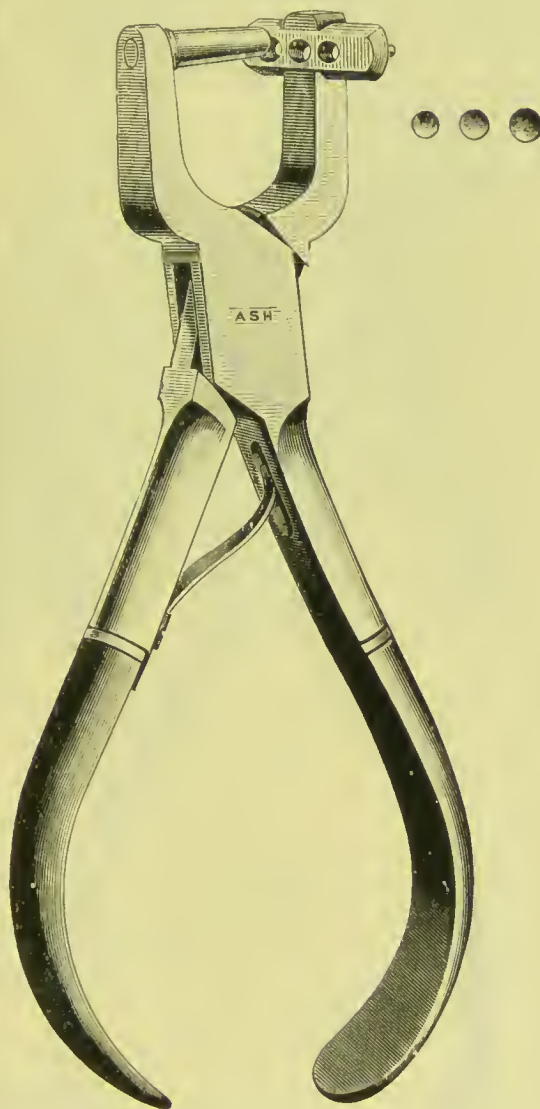
- (1) Cutting a thread on a tapering wire to make a screw post which will tap for itself a root to be filled or crowned.
- (2) Grasping a strip of copper about a bicuspid root in crowning.
- (3) Inserting and removing cone-socket points.

It is also a useful tool in the **Workshop** for general purposes, in particular for bending the pins in pin-teeth, and for adjusting the pins for tube-teeth, the long slender chops being especially fitted for these purposes.

Pliers, 5 in. long, Nickel-plated 3 6

CAVITY CAP PUNCH.

(MR. G. NORTHCROFT'S.)



6 inches long.

For punching out Metal Pulp Caps.

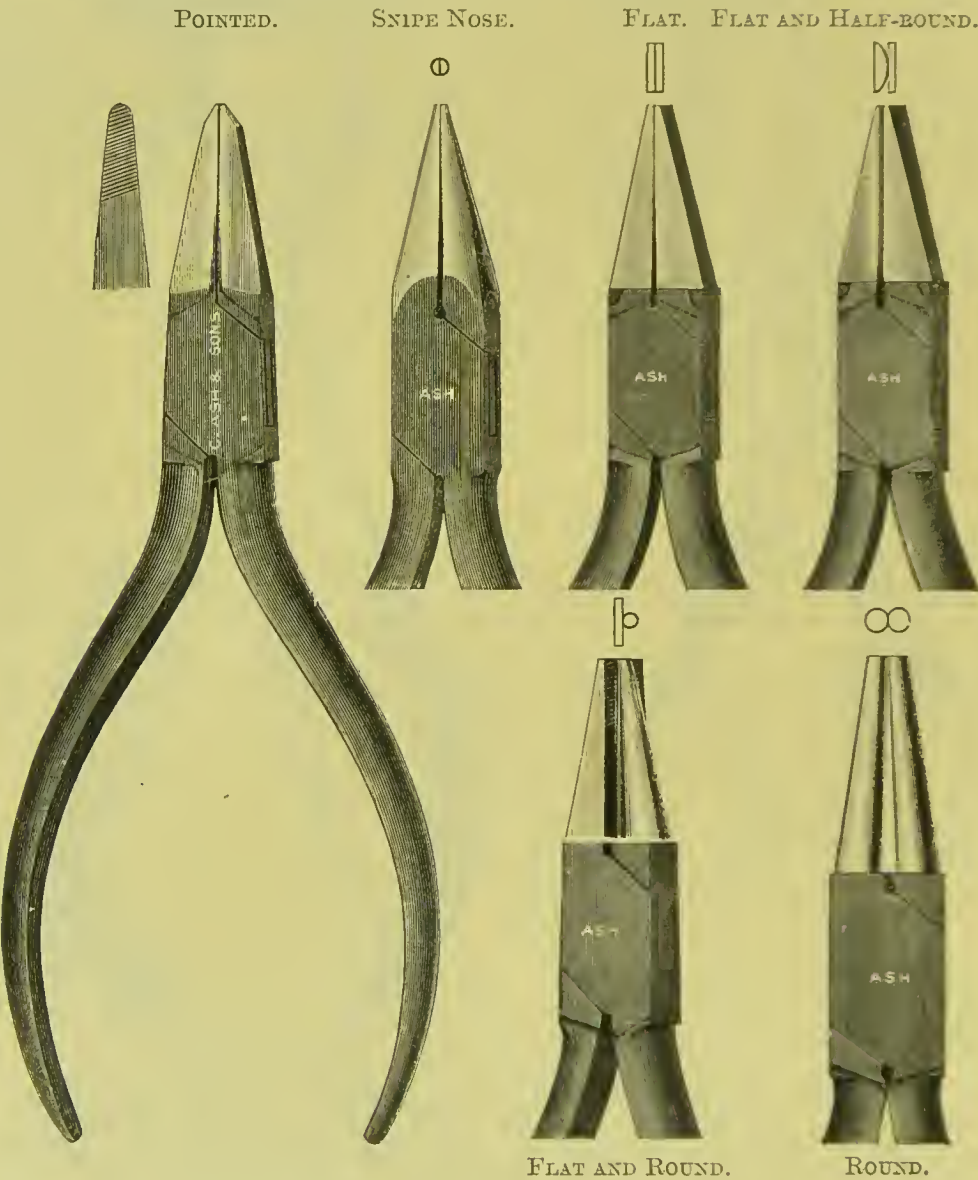
With this tool, correctly shaped caps in three different sizes can be made by the Operator from an ordinary thin sheet of white metal or telephone plate.

Punch, in polished Steel, with s. d.
black handles 7 0

WORKROOM PLIERS.

(STUBS'.)

The Pliers here illustrated are made in two sizes, $4\frac{1}{2}$ and 5 inches long ; in ordering, please specify the size required.

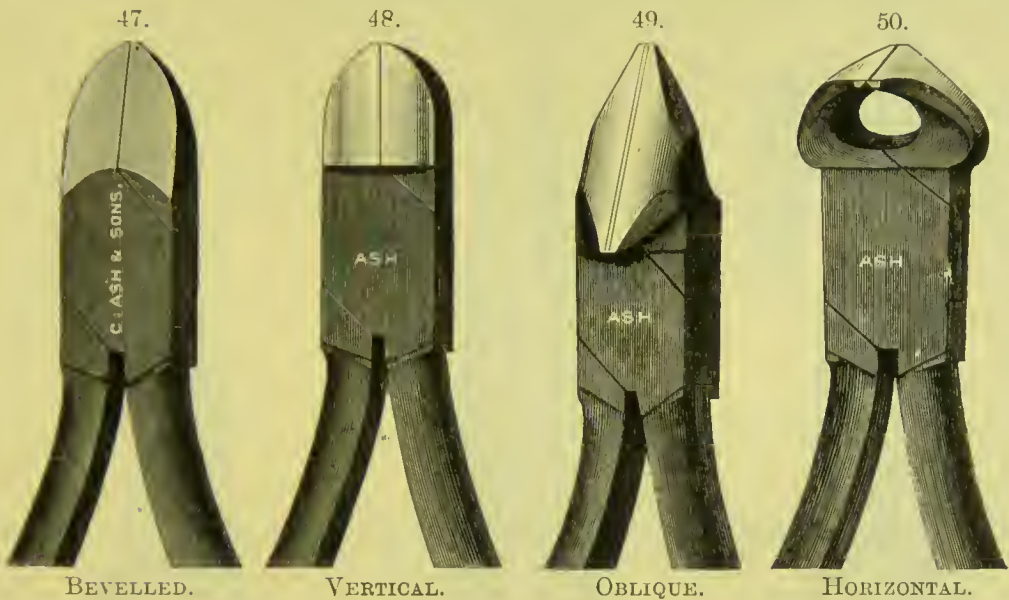


| PRICES, any kind, either size : | | 1s. | d. |
|--|------|-----|----|
| Dull black, with bright chops | each | 1 | 3 |
| Polished bright all over | .. | 1 | 6 |
| Nickel-plated, for use in Operating Room, to order | .. | 2 | 3 |

CUTTING NIPPERS.

(STUBS'.)

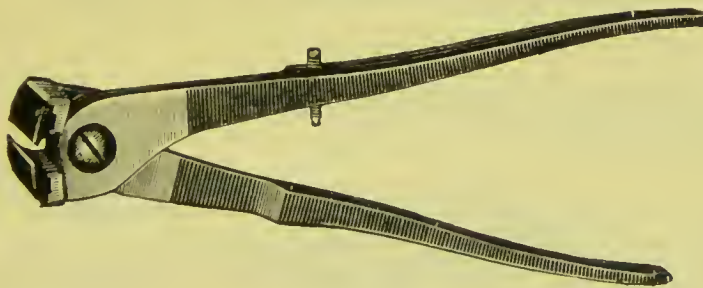
Made in two sizes, $4\frac{1}{2}$ inches and 5 inches long, with bevelled, vertical, oblique, and horizontal chops.



| | | | | s. | d. |
|--|----|----|----|------|-----|
| Cutting Nippers, any form, either size, black. | . | . | . | each | 2 3 |
| .. .. . | .. | .. | .. | .. | 2 9 |
| .. .. . | .. | .. | .. | .. | 3 3 |

CUTTING NIPPERS,

WITH INTERCHANGEABLE JAWS.



5 inches long.

These Nippers are simple, strong, and durable, and will effectually cut steel wire 2 mm. in diameter, or soft wire 3 mm. in diameter, without breaking.

| | | | s. | d. |
|--|---|---|----------|-----|
| Cutting Nippers, complete, as illustrated | . | . | each | 3 0 |
| Extra Jaws for the same | . | . | .. | 0 9 |
| Extra Screws for securing the Jaws in position | . | . | per doz. | 1 0 |

WORKROOM PLIERS.

(STUBS'.)

Made only in one size, 5 inches long.

GROOVED.



ROUGHING.

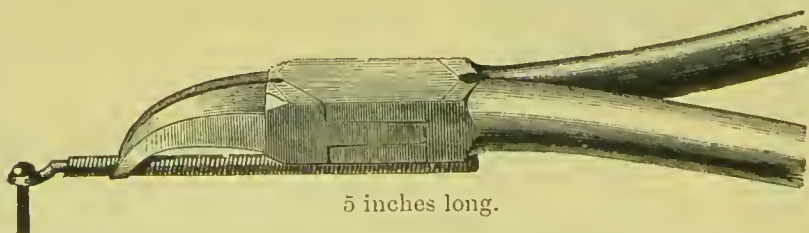


SWIVEL.



| | | s. | d. |
|--|-------|----|----|
| Grooved Pliers, for holding pins, black | each | 1 | 6 |
| Roughing „ „ roughening „ „ | „ | 2 | 0 |
| Swivel Pliers (Mr. Miles's), for reducing the tangs of swivels when they are too large for the springs | „ | 2 | 3 |
| Any of the above Nickel-plated, <i>to order</i> | extra | 1 | 0 |

SPRING-FITTING PLIERS, Etc.



5 inches long.

| | | | |
|--|----------|----|----|
| Spring-Fitting Pliers (Mr. Edwards'), used for forcing springs on to the tangs of swivels, or for pulling them off without injuring the springs; bright all over | each | s. | d. |
| India-rubber Tubing, red, for fitting over springs to prevent friction in the mouth | per foot | 0 | 3 |

LONG TAPERED FIVE-SIDED BROACHES.

(STUBS'.)

No. 44.—Large.

„ 46.—Tube Teeth Pin Size.

„ 49.—Smaller than Pin Size.

No. 53.—Small.

„ 55.—Extra Small.

„ 60.—Smallest.

| | | | | | | | |
|-----------------|---|---|----|----|------|----|--------------|
| | | | s. | d. | | s. | d. |
| Price, any size | . | . | . | . | each | 0 | 2½ |
| | | | | | | | per doz. 2 4 |

SHORT PARALLEL FIVE-SIDED BROACHES.

KNOWN ALSO AS BROACH DRILLS.

(STUBS'.)

LARGE, MEDIUM, AND SMALL.

| | | | | | | | |
|-----------------|---|---|----|----|------|----|--------------|
| | | | s. | d. | | s. | d. |
| Price, any size | . | . | . | . | each | 0 | 2½ |
| | | | | | | | per doz. 2 4 |

WIRE AND BROACH HOLDERS,

WITH SPLIT-CHUCK AND SCREW CLAMP.



They are pierced from end to end, and are durable. Made in two sizes, large and small, to carry wire of different thicknesses and broaches of various sizes.

| | | | | |
|-----------------------------|---|---|----|----|
| | | | s. | d. |
| No. 1, large, 4 inches long | . | . | 1 | 0 |
| „ 2, small, 3¾ | „ | „ | 1 | 0 |

EBONY BROACH HOLDER,

WITH UNIVERSAL SOCKET AND SCREW CLAMP.



FULL SIZE.

This is one of the most useful Broach Holders that we have ever seen. There is a hole right through the handle, that admits the broach, which can thus be made long or short as desired and kept thoroughly under control.

| | | | | |
|-------|---|---|----|----|
| | | | s. | d. |
| Price | . | . | 1 | 6 |
| | . | . | | |

| | | | | |
|--|---|---|----------|-----|
| | | | s. | d. |
| Broach Handles, Bone, with screw socket. | . | . | 0 | 4 |
| „ „ Wood. | . | . | 1½ | 4 |
| | | | per doz. | 1 3 |

ASH'S TOOTH HOLDER.

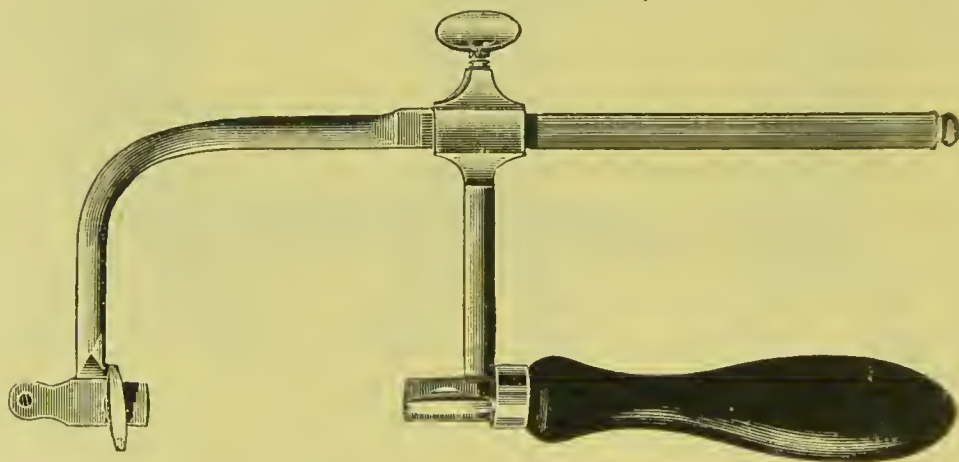


5 inches long.

For holding mineral teeth when grinding. It is equally useful for teeth with vertical or horizontal pins, the T-shape slot being designed to take both.

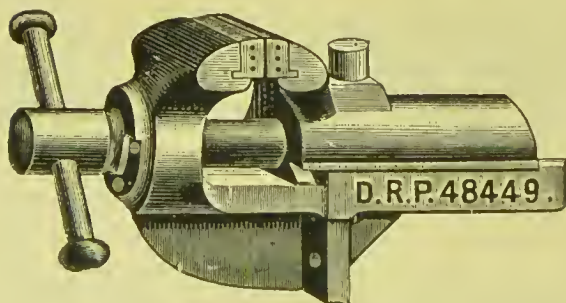
| | | |
|--|------|-------|
| In bright Steel, wooden handle | each | s. d. |
| | | 1 3 |

PIERCING SAW FRAME.



| | | |
|--|-----------|-------|
| Piercing Saw Frame | each | s. d. |
| Blades, narrow to broad, fine to coarse cut | per gross | 1 9 |
| Blades, narrow to broad, fine to coarse cut | per doz. | 3 0 |
| Circular Saws for Lathes, 1 to 4 inches diameter | per inch | 0 4 |
| | | 1 0 |

BOLEY PARALLEL VICES.



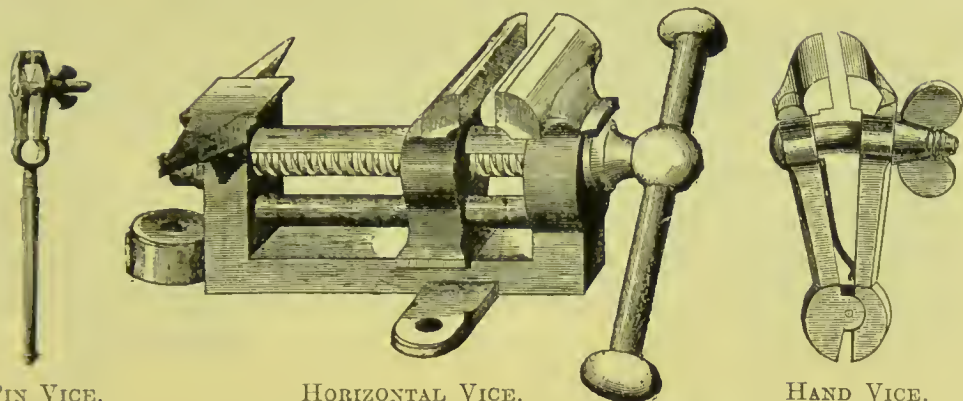
Strong, quick in action, roomy in the jaws, and extremely serviceable.

Kept in stock in the two following sizes :—

| | |
|---|-------|
| Miniature, fixed, with jaws $1\frac{1}{2}$ in. wide | s. d. |
| | 4 0 |
| Size A, fixed, with jaws $2\frac{3}{8}$ in. wide | 8 6 |

Larger sizes supplied to order.

VICES, VARIOUS.



PIN VICE.

HORIZONTAL VICE.

HAND VICE.

| | s. | d. |
|---|----------|----|
| Pin Vice, all Steel, with hole through handle, $4\frac{1}{2}$ in. long | 2 | 6 |
| Horizontal or Parallel Vice, to fix on bench, 7 in. long, width
of chops $2\frac{3}{4}$ in., weight 4 lbs. | about 15 | 0 |
| Hand Vice, 4 in. long, width of chops about $1\frac{1}{4}$ in. | 3 | 0 |
| " $4\frac{1}{2}$ in. " " " $1\frac{1}{2}$ in. | 3 | 9 |

ASH'S RETAINING TAGS.

FOR COMBINATION DENTURES AND FOR CONTINUOUS-GUM WORK.

(REGISTERED. REG. NO. 350,189.)

By Combination Dentures are meant such work as lining the palatine or lingual surface of a vulcanite denture with gold, or using metal strengtheners in conjunction with vulcanite.

The engraving shows a palatine lining with the Tags soldered on the outer or lingual side ready for the vulcanite to be attached. When the lining is required on the lingual side, the Tags are, of course, soldered on the inner or palatine side.



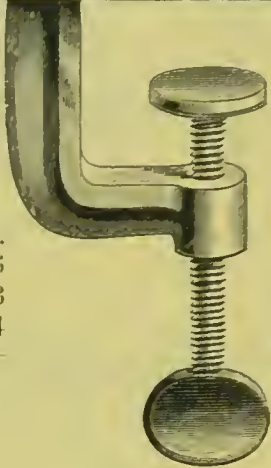
| | | |
|--|-----|------------|
| | s. | <i>d</i> . |
| Pure Nickel Tags for Vulcanite Work . . . per box of 100 | 1 | 6 |
| Dental Alloy " " " " " | 5 | 0 |
| Gold Tags " | 50 | 6 6 |
| " " " " " " " " " " " | 100 | 12 6 |
| Platinum Tags for Continuous-Gum Work . . " | 50 | 7 0 |

ASH'S HANDY BENCH PIN.



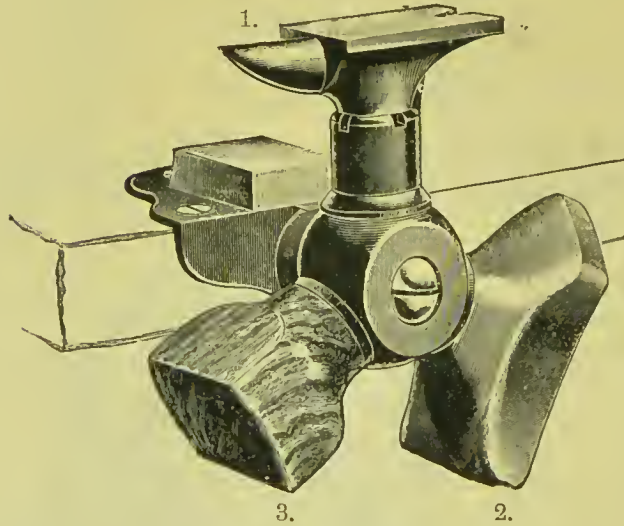
ABOUT HALF-SIZE.

The weight of this Bench Pin is 9½ ozs. It is very useful for the Operating Room or when visiting; can be fixed in any convenient place, and is readily taken apart for packing in a bag.



| | | | |
|---------------------------------|---------------|----|----|
| | | s. | d. |
| Price complete, as illustrated. | | 1 | 6 |
| Separately | { Clamp | 1 | 3 |
| | { Wooden Part | 0 | 4 |

MELOTTE'S PATENT REVOLVING COMBINATION BENCH BLOCK.



DESCRIPTION:

No. 1 is a nicely finished case-hardened Steel Anvil, which may be instantly revolved and stopped on quarters.

No. 2 is a Rubber Block, held by friction on its arm, and can be readily turned to any position.

No. 3 is a Wooden Block held on its arm by a rubber friction device, which can be turned round to any position desired.

The Bracket also affords a hammering surface.

ABOUT HALF-SIZE.

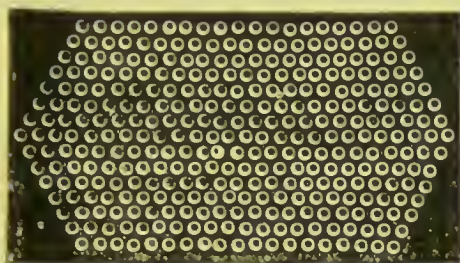
| | | | |
|--------------------------------------|------|----|----|
| | | s. | d. |
| Bench Blocks complete as illustrated | | 12 | 6 |
| Parts separately for renewing: | | | |
| Brackets | each | 2 | 1 |
| Anvils | .. | 4 | 2 |
| Rubber Blocks | .. | 1 | 6 |
| Wooden .. | .. | 0 | 8 |

MAGNUS BENCH BLOCK,

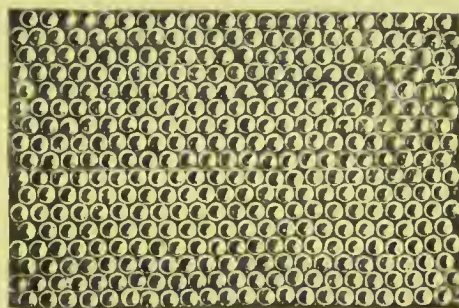
WITH RUBBER BLOCK. MADE IN TWO SIZES.

| | | | |
|-------------------------------------|------|----|----|
| | | s. | d. |
| Price, either size, large or small | each | 5 | 3 |
| Extra Rubber Blocks, large or small | | 1 | 6 |

PASSEHL'S SUCTION PLATES.



Nos. 1 and 2.

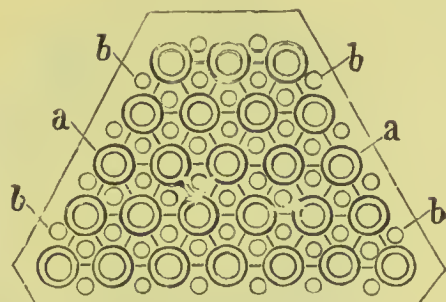


Nos. 3 and 4.

| No. | Description | Material | per doz. | s. | d. |
|--------|----------------------|-----------|----------|----|----|
| No. 1. | Pearl Suction Plate, | Tin | per doz. | 1 | 0 |
| " 2. | " | Aluminium | " | 2 | 0 |
| " 3. | " | Tin | " | 1 | 0 |
| " 4. | " | Aluminium | " | 2 | 0 |



Nos. 7 and 8.



Nos. 9, 10, 11 and 12.

| No. | Description | Material | per doz. | s. | d. |
|--------|-------------------------------|----------------|----------|----|----|
| No. 7. | Cup Suction Plate, | Tin | per doz. | 1 | 0 |
| " 8. | " | Aluminium | " | 2 | 0 |
| " 9. | Perforated Cup Suction Plate, | Aluminium | " | 2 | 6 |
| " 10. | " | Victoria Metal | " | 5 | 0 |
| " 11. | " | 18-ct. Gold | each | 8 | 0 |
| " 12. | " | Dental Alloy | " | 4 | 0 |

WÜNSCHE'S STRENGTHENING PLATE.

| Description | Material | per sheet | s. | d. |
|---|----------|-----------|----|----|
| Victoria Metal, in sheets, about 10 × 2 $\frac{1}{4}$ inches, | | per sheet | 4 | 0 |
| Aluminium, | " | " | 2 | 6 |

SPYER'S COHESION SURFACE FORMERS.

| Description | Material | per box of 1 doz. | s. | d. |
|-------------|----------|-------------------|----|----|
| In pure Tin | | per box of 1 doz. | 1 | 0 |

BROWNLIE'S SUCTION VALVE.

This Valve can be attached to either a metal plate or a vulcanite piece.

The claim made for it is that it is the best in the market.

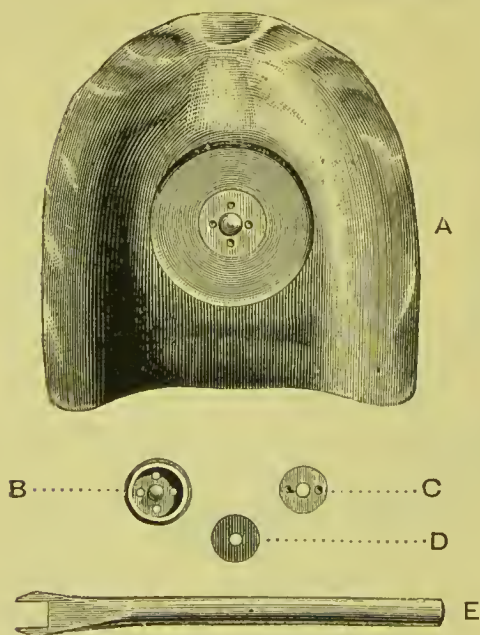
ADVANTAGES:

- 1.—It is simple in construction.
- 2.—Not liable to get out of order.
- 3.—Will hold the heaviest denture in position, if properly adjusted.

Some idea of its power in this direction may be gained when it is stated that it will support a column of water in a glass tube 30 inches long, which is equal to 5 ounces in weight.

- 4.—It is very cleanly, comfortable, and efficient in use.

5.—It does not produce soreness or swelling of the palate; in a word, it has more advantages than other valves without any of their disadvantages.



DESCRIPTION:

- A—Valve mounted in vulcanite.
 B—Valve unmounted.
 C—Screw head.
 D—India-rubber washer.
 E—Key for adjusting screw-head.

Directions for Use supplied with each Valve.

| | s. | d. |
|---|----|----|
| In 16-carat Gold each | 5 | 6 |
| In Dental Alloy | 3 | 6 |
| Key for adjusting screw-head in position | 0 | |
| Extra India-rubber Washers, in packets containing 2 doz. per pkt. | 0 | 6 |

A discount of 10 per cent. is allowed when half a dozen Valves are purchased.

LORD'S PATENT MOULDED SUCTION DISCS.

The following Discs are made from rubber masticated by powerful and specially constructed machinery (in our own works) without the use of naphtha or other solvent in any shape or form. The rubber being masticated dry is less liable to swell in the mouth, and is also perfectly free from the smell of solvents, such as naphtha, etc. Every Disc is compressed, moulded, and vulcanized under compression in separate metallic moulds. We are thus able to produce them of one uniform density and quality. Their vulcanization is carried to the utmost limit without injury to the rubber. Every Disc is numbered and bears the words "Lord's Patent" in raised letters.

SIZES AND PATTERNS OF DISCS.

We make 10 patterns and sizes of Discs, and put them up in boxes of 12. Each box contains full directions for use. 12 Moulded Rubber Discs, any colour, pattern, or size; 13 sets of patterns for forming chambers, cut from millboard; 12 pins for fastening the same down to model; 12 stamped washers and bolts, for fixing Disc to palate.

Boxes of Discs can also be had packed, with 6 sets fine grain tin chamber patterns, which can be used in two or more cases each. These are very soft, and will not stain the vulcanite. When not otherwise specified, boxes will be sent packed with red rubber discs Nos. 0 and 1, and tin chamber patterns.

PRICES:

Per Box of 12 Sets of Discs, RED OR GREY RUBBER.

| | | s. | d. |
|--|---------------|----|----|
| With Gold Washers and Platinum Bolts | per box | 21 | 0 |
| „ Dental Alloy Washers and Platinum Bolts | „ | 15 | 0 |
| „ Gold-plated Dental Alloy Washers and Gold-plated Fine Silver Bolts | „ | 12 | 0 |
| „ Pure Aluminium Washers and Bolts | „ | 7 | 6 |
| Rubber Discs only, any pattern, Red or Grey | per doz. | 4 | 0 |
| Platinum Bolts | „ | 5 | 6 |
| Gold-plated Fine Silver Bolts. | „ | 1 | 6 |
| Pure Aluminium Bolts | „ | 1 | 0 |
| Gold Washers | „ | 11 | 0 |
| Gold-plated Dental Alloy Washers | „ | 6 | 0 |
| Dental Alloy Washers. | „ | 5 | 0 |
| Pure Aluminium Washers | „ | 2 | 0 |
| Fine Grain Tin Chamber Patterns | per doz. sets | 1 | 0 |
| Millboard „ „ „ | per gross | 6 | 0 |
| Improved Air-Chamber „ | „ | 1 | 0 |
| Cast Steel Riveting Tool, to Rivet on | each | 0 | 6 |

LADLE FURNACE.

(FLETCHER, RUSSELL & CO.'S.)

This Furnace will take Ladles 7 inches in diameter. The burner, which is removable, can also be used for heating soldering irons, boiling water, and other purposes. The body and lid are arranged to admit the handles of different size Ladles at different heights, to enable them to be kept perfectly level. It is furnished with a metal skimmer, and hook for lifting the lid.



| | s. | d. |
|---|----|----|
| Furnace complete, without Ladle | 13 | 0 |

LADLES FOR ZINC AND LEAD.

(FLETCHER, RUSSELL & CO.'S.)

These Ladles, which are true to shape and thickness, are made with cast-iron bowls for lead and malleable iron bowls for zinc. The handles are bolted on, and never wear out. A new bowl can be fixed in a few minutes. The diameter of each is 7 inches. The handles ensure perfect steadiness in pouring, and are always cool; the sliding handle being pushed to the cool end while the metal is being heated.



| | s. | d. |
|---|------|-----|
| Ladle with cast-iron bowl, for lead | each | 4 0 |
| „ with malleable bowl, for zinc | „ | 6 6 |
| Extra Bowls—Cast-iron, for lead | „ | 1 3 |
| „ Malleable, for zinc | „ | 3 9 |

WROUGHT-IRON LADLES FOR LEAD AND ZINC.

| | s. | d. |
|---------------------------------|---------|------|
| No. 1.—5 in. diameter | each | 1 9 |
| „ 2.—5½ in. „ | „ | 2 0 |
| „ 3.—6 in. „ | „ | 2 6 |
| „ 4.—6½ in. „ | „ | 3 0 |
| „ 4.—4½ in. „ Light | „ | 1 8 |
| Lead—price fluctuates | per lb. | 0 3 |
| Zinc— „ | „ | 0 4½ |
| | U | 2 |

INDIA=RUBBER TUBING.

| | | | | | | s. | d. |
|------|---------------------------|-------------|---------------|---|---|----------|-----|
| Red, | $\frac{3}{4}$ -inch bore, | any length, | smooth inside | . | . | per foot | 2 0 |
| " | $\frac{5}{8}$ | " | " | " | " | " | 1 6 |
| " | $\frac{1}{2}$ | " | " | " | " | " | 0 9 |
| " | $\frac{3}{8}$ | " | " | " | " | " | 0 6 |
| " | $\frac{1}{4}$ | " | " | " | " | " | 0 6 |

IMPROVED BRAIDED
GAS=TIGHT FLEXIBLE TUBING.

(FLETCHER, RUSSELL AND CO.'S.)

| | | | | | | s. | d. |
|---------------------------|--------------|---|---|---|---|----------|-----|
| $\frac{3}{8}$ -inch bore, | best quality | . | . | . | . | per foot | 0 5 |
| " | " | . | . | . | . | " | 0 6 |

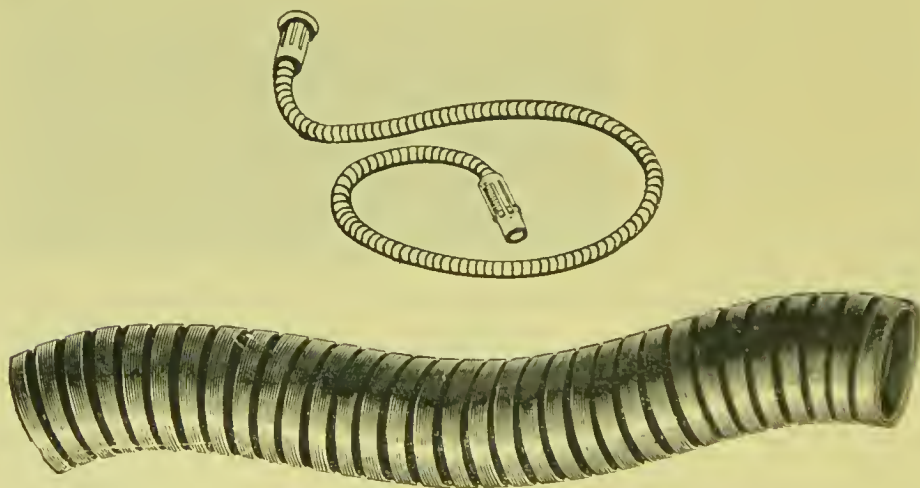
Elastic ends fitted to each length and included in above prices.

FLEXIBLE STEEL TUBING.

(BEST QUALITY.)

Suitable for dental Furnace and Blowpipe work. Will wear twice as long as ordinary Flexible Tubing; cannot be kinked or crushed; will stand tons of external pressure.

It will be found invaluable in those climates which rapidly destroy India-rubber Tubing.



The illustrations show (1) a length, reduced size, with thick rubber connections, and (2) a short piece full size.

| | | | | | | s. | d. |
|------------------------------------|---------------------------|------------|---|---|---|----------|-----|
| Flexible Steel Tubing, | $\frac{1}{4}$ -inch bore, | any length | . | . | . | per foot | 0 5 |
| " | $\frac{3}{8}$ | " | " | " | " | " | 0 7 |
| Thick India-rubber Connections for | $\frac{1}{4}$ -inch size | . | . | . | . | per pair | 0 4 |
| " | $\frac{3}{8}$ | " | " | " | " | " | 0 7 |

Other sizes supplied to order.



MELTING ARRANGEMENT.

(FLETCHER, RUSSELL & CO.'S.)

For melting gold and silver rapidly, without the use of a furnace. In this arrangement the two parts of the ingot mould slide on each other, to admit of ingots of any width being cast. We find it necessary to emphasise this fact, in answer to the numerous inquiries which we receive for wire moulds. This mould serves for both plate and wire, and the Blowpipe is part of the roasting stand.

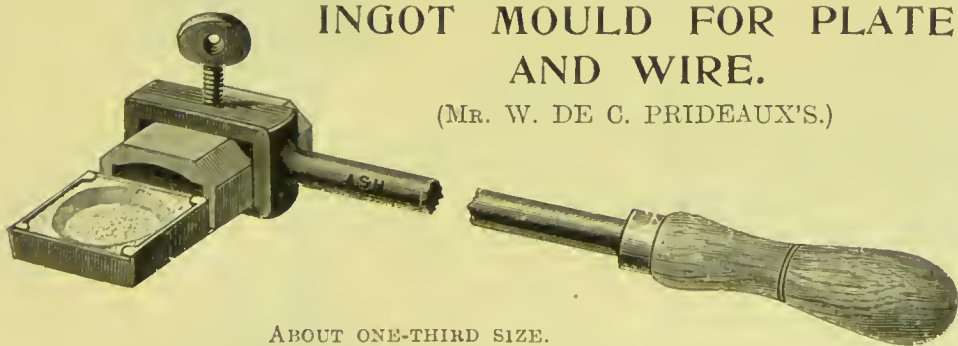
SLIGHTLY UNDER HALF-SIZE.

| | | | | |
|--|----------|----|----|-------|
| Melting Arrangement, as engraved, 3-oz. size | | 13 | 6 | s. d. |
| " " Improved, with Swivel Stand | | 15 | 6 | |
| Carbon Crucibles | each | 0 | 2 | |
| " " | per doz. | 1 | 10 | |
| Fireclay " | each | 0 | 4 | |
| " " | per doz. | 3 | 6 | |
| Slides to carry the Crucibles | each | 0 | 2 | |

No. 3 size Foot-Blower will work the above Melting Arrangement. An extra Slide is given with every half-dozen Crucibles purchased.

INGOT MOULD FOR PLATE AND WIRE.

(MR. W. DE C. PRIDEAUX'S.)



ABOUT ONE-THIRD SIZE.

For use with Fletcher's Automatic Hand Blowpipe; adapted for melting up to about 3 ozs. of gold.

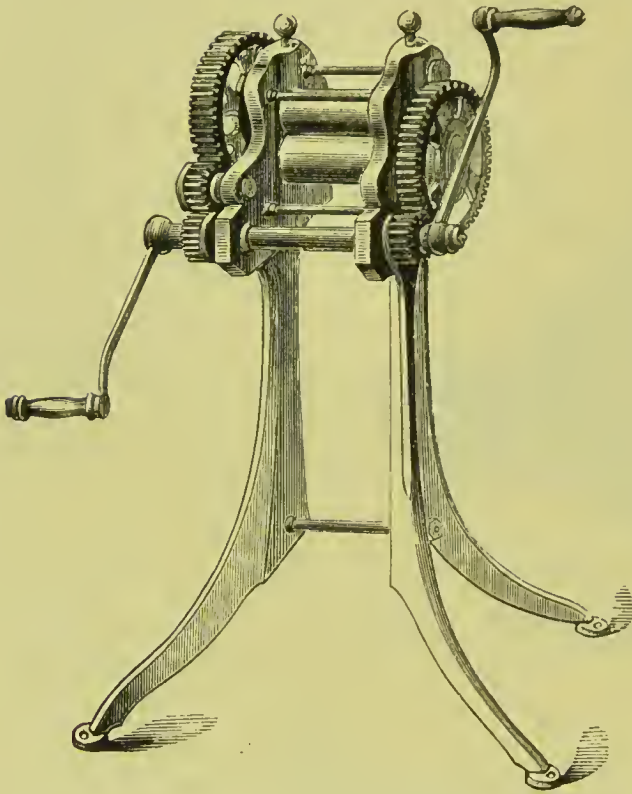
The engraving shows the mould for *plate* with Fletcher's slide and crucible secured to it by the screw on the top of the frame. The upper part of this mould can be removed and the mould for *wire* substituted for it in a few moments.

A slight twist of the handle suffices for pouring the molten metal into the mould.

| | | |
|---------------------------|------|------|
| Price, complete | s. 6 | d. 0 |
|---------------------------|------|------|

FLATTING MILLS.

FIG. 3.



Height, about 42 inches.

FLATTING MILL on iron stand, to fasten to the floor, with hardened steel rollers of the best quality, 4 inches long by $2\frac{1}{4}$ inches diameter, double gearing for multiplying the power, and two handles.

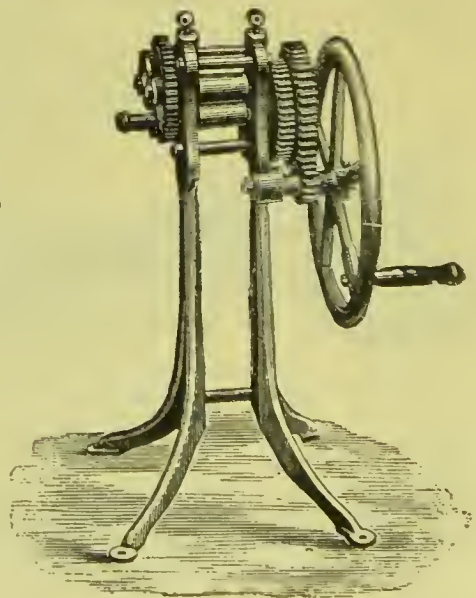
Current Prices on application.

FLATTING MILL, similar to Fig. 3, with same size rollers, fitted up with triple gearing and fly-wheel.

Current Prices on application.

Packing Cases charged extra.

FIG. 4.



Height, about 42 inches.

FLASKS FOR MAKING METAL DIES.

(BAILEY'S.)

FIG. 1.

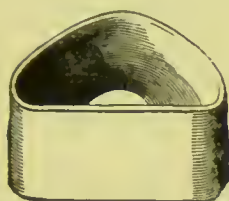
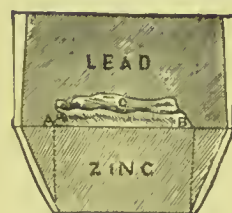


FIG. 2.



FIG. 3.



DIRECTIONS FOR USE:

Place a shallow Plaster Cast, A B C (Fig. 3), on a level surface; turn over it the lower half of the Flask (Fig. 1), with joint side down; pack the sand in it, and level off the top; turn up the Flask, remove the superfluous sand, tap the cast lightly, when it can be easily lifted out; pour in the Zinc; when the impression is filled, place over it the upper half of the Flask (Fig. 2), and fill up immediately; knock out the sand, invert the whole Flask, and pour the Lead upon the Zinc; when cooled, part and remove the Flasks, and with a few sharp blows at the joint the Dies will separate.

Figs. 1 and 2 constitute the Flask, which is made in two sizes, large and small.

| | s. | d. |
|------------------------------|----|----|
| Price, either size | 2 | 0 |

MOULDING FLASK.

(HAWES'.)

FIG. 1.

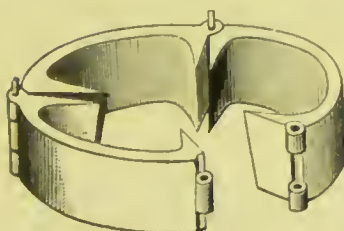


FIG. 2.

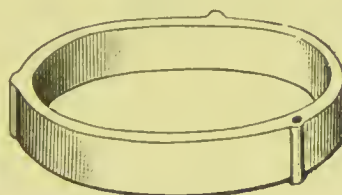


FIG. 3.

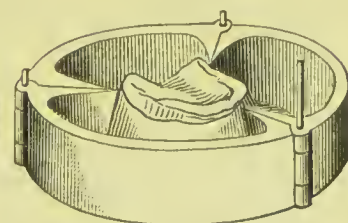


Fig. 1 represents the lower section of the Flask, slightly opened, to show the joints. Fig. 2 is the upper section. When ready for use, the lower section is closed and confined by a pin, and the Plaster Model is placed in it, as represented in Fig. 3.

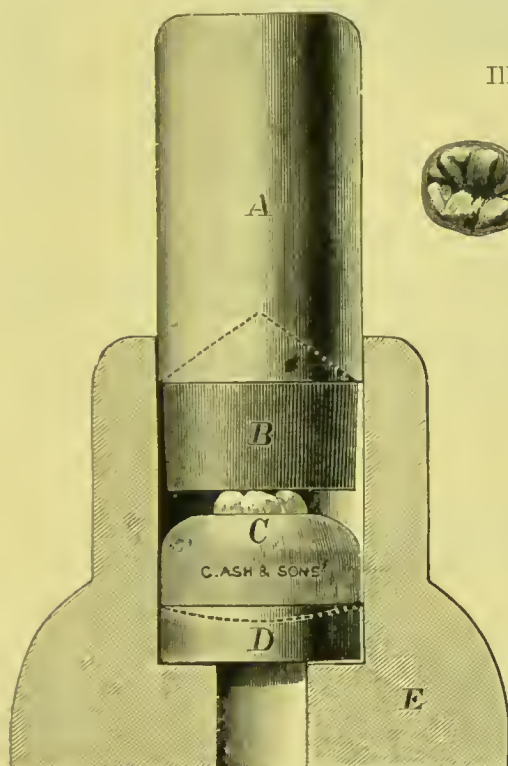
| | s. | d. |
|---------------------------|----|----|
| Price, complete | 12 | 6 |

ASH'S CROWN SWAGER.

(REGISTERED. REG. No. 334,144.)

There is no limit to the number of dies which can be made for use in this little Swager; any natural or artificial bicuspid or molar can be employed, and very easily and quickly mounted in Composition ready for the Gold Crown to be swaged upon it.

CROWN SWAGER.



FULL SIZE.

Illustrations of Crowns made in the Swager.



Any thickness of fine or of 22-carat gold, up to size 5, Ash's Gauge, can be swaged without difficulty.

Descriptive Circular sent post free on application.

DESCRIPTION:

- A**—Plunger. **B**—India-rubber Block.
C—Composition with Tooth embedded in it. **D**—Bed-Plate.
E—Section of Base with hole in the floor for dislodging Bed-Plate **D**, etc.

PRICES:

| | s. | d. |
|---|----|----|
| Crown Swager with two Rubber Blocks | 7 | 6 |
| Additional Bed-Plates D each | 0 | 4 |
| Extra-Hard Swaging Composition, in $\frac{1}{2}$ -lb. boxes per lb. | 5 | 0 |

MOUTH BLOWPIPES.

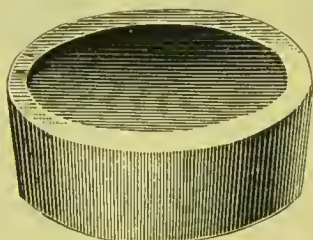


13 inches long.

| | | |
|--|----------|-------|
| Mouth Blowpipe, in Brass, lacquered, with hollow chamber, as illustrated, to hold any moisture that may escape from the mouth. With ivory mouth-piece, and two nozzles | each | s. d. |
| | | 2 9 |
| The same without moisture chamber | „ | 1 9 |
| Mouth Blowpipes, plain, with tinned ends, from 11 to 14 inches long | per inch | 0 1 |

MOULDED CARBON BLOCK.

(FLETCHER'S.)

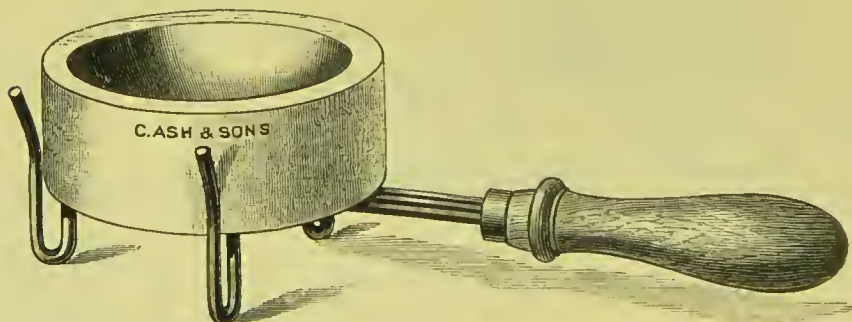


For supporting work under small blowpipes. It is cleanly, a perfect non-conductor, and very durable.

Diameter, $4\frac{1}{4}$ inches ; thickness, $1\frac{1}{2}$ inches.

| | |
|-----------------|-------|
| | s. d. |
| Price | 1 6 |

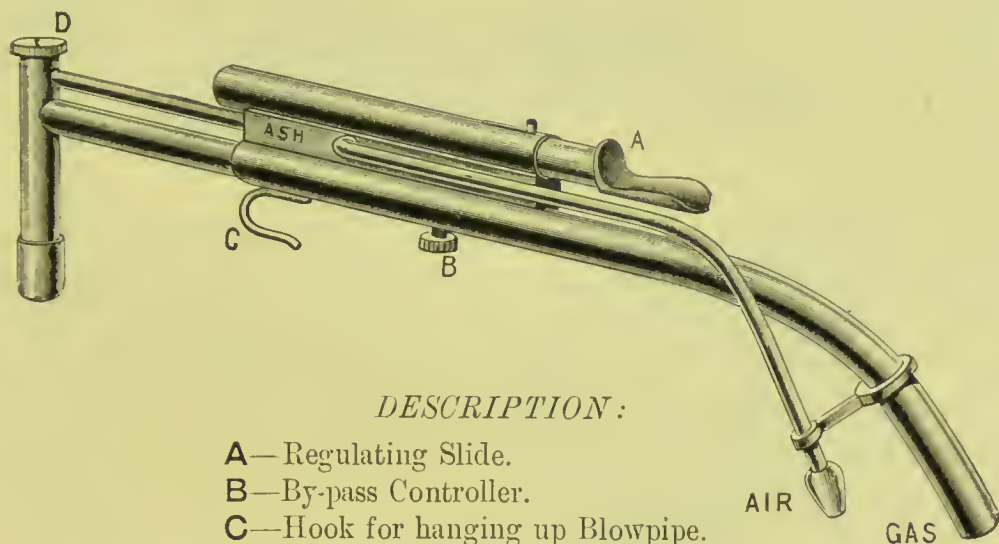
ASBESTOS SOLDERING BLOCK.

Size of Block: Diameter, $4\frac{1}{2}$ inches ; thickness, $1\frac{1}{4}$ inches.

| | |
|--|-------|
| Price of Block, complete with Handle and Frame | s. d. |
| | 3 9 |
| <i>Separately :</i> | |
| Block | 2 6 |
| Handle and Frame | 1 3 |
| Ash's Easy-to-cut Soldering Block, with Handle | |
| | 3 3 |
| „ „ „ minus „ | 2 6 |

ASH'S PERFECT AUTOMATIC BLOWPIPE.

(Patented in Great Britain, Germany, and the United States of America.)



DESCRIPTION:

- A—Regulating Slide.
- B—By-pass Controller.
- C—Hook for hanging up Blowpipe.
- D—Cap in which nozzle is screwed.
- Gas—Gas inlet.
- Air—Air inlet.

Any size flame between a large heating-up flame and a needle flame can be obtained in a moment with Ash's Perfect Automatic Blowpipe; it is in every way an ideal blowpipe.

There are no taps about it and nothing to get out of order. By means of the sliding Thumb Regulator **A** both gas and air can be instantly cut off, leaving only the By-pass alight; the Blowpipe is thus not only always ready for use, but under the most perfect control; moreover, it is absolutely steady in use.

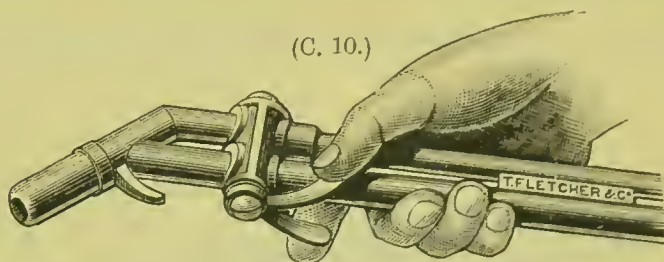
The By-pass can either be cut off or enlarged by opening or closing the Regulating Screw **B**, but there is no need to touch it, except for some special reason, because it is set at the right point when the Blowpipe is tested before being offered for sale.

The Blowpipe is light and handy, comfortable to use, thoroughly well made, and in every way suited for all classes of Dental Work.

The nozzle which screws into Cap **D** can be removed and replaced by a new one, when necessary, in a few moments.

| | |
|--------------------------------------|-------|
| | s. d. |
| Price, in Brass, lacquered | 10 6 |

FLETCHER'S AUTOMATIC BLOWPIPE.



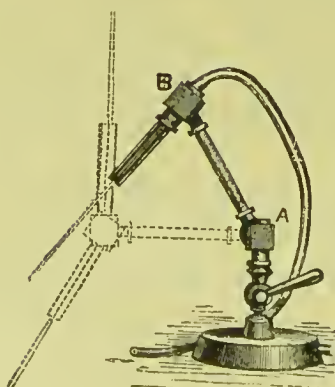
This will be found a simple and most extraordinarily efficient Blow-pipe for ordinary workshop use. Both gas and air are controlled with a movement of the finger, a few minutes' practice giving perfect mastery over the character of the flame. It consumes about 10 cubic feet of gas per hour at full power. Requires Foot Blower, size No. 3.

| | s. | d. |
|---------------------------------|----|----|
| Price, as illustrated | 9 | 0 |
| The same on Stand | 12 | 6 |

SIZES OF BLOWPIPE JETS.

| 0 | 1 | 2 | 3 | 4 | 6 | 8 |
|---|---|---|---|---|---|---|
| . | o | • | • | • | • | • |

| Price | each | s. | d. |
|-------|------|----|----|
| | | 0 | 3 |



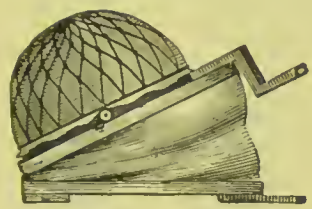
FLETCHER'S DOUBLE-JOINTED HERAPATH BLOWPIPE.

As used and recommended by Dr. Angle in his work on Regulating Teeth, etc.

| Price | s. | d. |
|-------|----|----|
| | 7 | 6 |

FLETCHER'S FOOT BLOWERS.

FIG. 9.

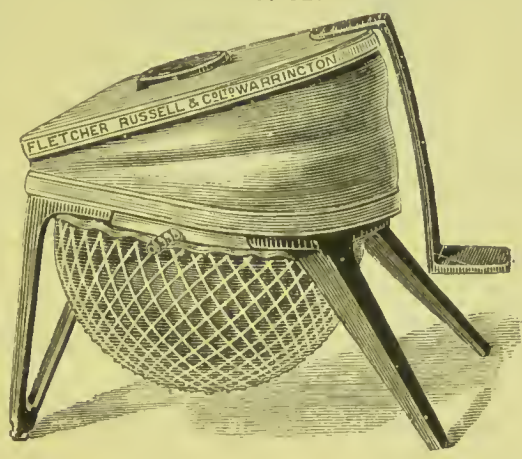


These Blowers (Fig. 9) have proved themselves to be efficient, simple, strong, and able to stand hard and constant work. The pattern is now made in the following sizes :

| | | s. | d. |
|---------|-----------------------------------|------|------|
| Size 3. | 13 by 10 by 6½ in. deep | each | 26 0 |
| „ 5. | 15 „ 12 „ 7 „ | „ | 33 6 |

FIG. 9B.

This pattern, by reversing the position of the Blower, reduces the risk of mechanical injury to the disc, and does away with the necessity for a wood casing or protection. It also prevents the valve from picking up dirt from the floor, keeping the whole arrangement cleaner, and the valves in more perfect order.



| | | s. | d. |
|---------------|--|------|------|
| Size 3. | Same dimensions as Fig. 9 | each | 30 6 |
| „ 5. | „ „ „ 9 | „ | 36 6 |
| Rubber Discs, | for size 3 each 2/8 ; for size 5 „ | | 4 0 |
| Nets, | „ 3 „ 1/- ; „ | | 1 4 |

(Two Rubber Discs are used on each Blower.)

FLASK HOLDER

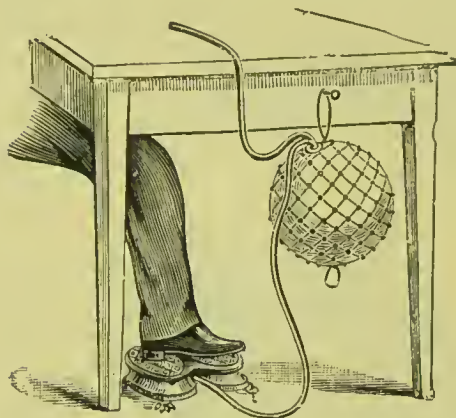
AS USED AT THE BERLIN DENTAL SCHOOL.



By means of the screw handle, the Flask can be firmly clamped in the Holder for heating-up, scalding out the wax, or packing the rubber.

| | s. | d. |
|-----------------|----|----|
| Price | 3 | 6 |

STANDING'S
PORTABLE DOUBLE FOOT-BELLOWS AND RESERVOIR.
 (FOR USE WITH THE BLOWPIPE.)



A steady and continuous blast is given by this compact little apparatus, sufficiently powerful for any Blowpipe that is used for dental purposes. The double bellows is worked by a rocking motion of the foot, and requires very little exertion.

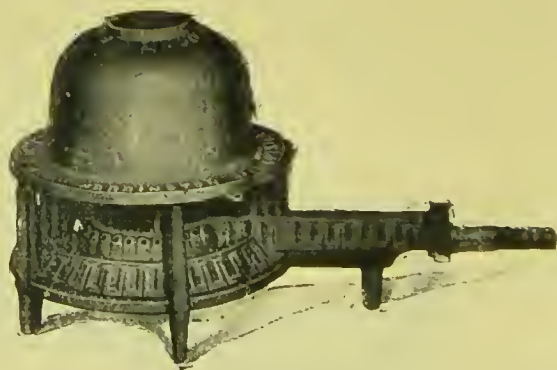
As shown in the engraving, the air reservoir can be suspended by the side or underneath the work-bench in any convenient position where it is not likely to get damaged.

| | | | |
|--|---|----|----|
| Price, complete with India-rubber tubing, as | £ | s. | d. |
| illustrated | 1 | 0 | 0 |
| Large size for Furnace work | 1 | 5 | 0 |

PLATE DRYER AND HEATER.

(FLETCHER, RUSSELL & CO.'S.)

The Dome here illustrated is of light cast iron of the same internal diameter as the well-known Fireclay Dome. It will fit any Burner.



| | | |
|----------------------------------|----|----|
| | s. | d. |
| Dome only | 0 | 10 |
| No. 10 Standard Burner | 1 | 10 |
| Complete | 2 | 8 |

FIG. 1.

FIG. 2.

FIG. 3.



$4\frac{3}{4}$ in. long.

$4\frac{3}{4}$ in. long.

$4\frac{1}{4}$ in. long.

SOLDER TWEEZERS.

PRICES:

| | | s. | d. |
|---------------------|------|----|----|
| Fig. 1. Blunt . . . | each | 0 | 9 |
| „ 2. Pointed . . . | „ | 0 | 9 |
| „ 3. Blunt . . . | „ | 0 | 4 |

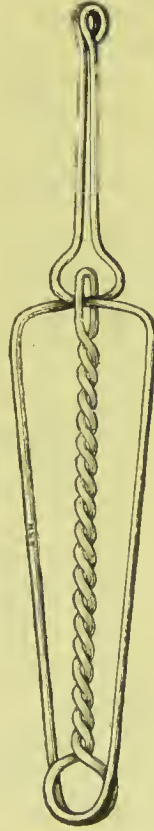
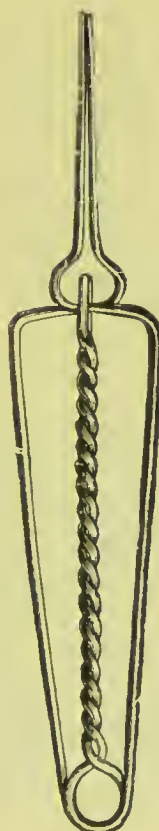
No. 4, *not illustrated*—

Blunt, $4\frac{1}{4}$ inches long . . . 0 6

Pointed, $4\frac{1}{4}$ „ „ 0 6

FIG. 5.

FIG. 6.



$6\frac{1}{2}$ in. long.

$6\frac{1}{2}$ in. long.

SELF-CLOSING SOLDERING TWEEZERS.

FOR HOLDING CAPS, CROWNS,
OR OTHER LIGHT WORK
WHILE SOLDERING.

Fig. 5. Flat-pointed.

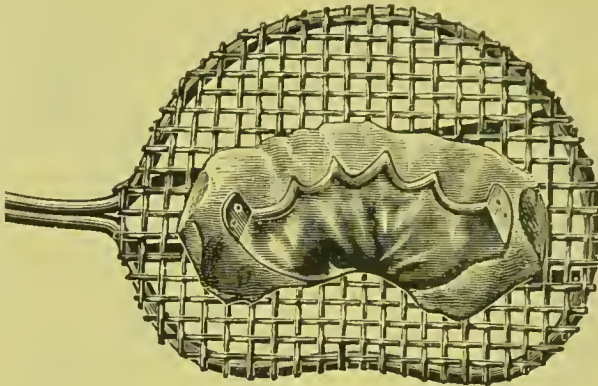
„ 6. With loop ends.

Price, dull Nickel-plated, . . . s. d.
either form . . . each 0 6

BRITTAN'S SOLDERING SPOON.

With wire handle and gauze bowl, supported underneath by two iron stays.

The shape of the Spoon is so convenient that any case can be soldered upon it, and when the case is red-hot the handle remains perfectly cool.



ABOUT TWO-THIRDS SIZE.

Mr. Brittan says: My method of using the Spoon is as follows: The teeth or bands having been waxed to the plate ready for inserting in plaster and sand, I mix this as usual, put sufficient for the case on the gauze of the Soldering Spoon,

and insert the ease. Should I be in a hurry, I put the Spoon over a low flame *at once* to hasten the setting, and when the case is red-hot I solder. The advantages of my plan are these:

- a. A great saving of time.
- b. I have no need of a clumsy charcoal slab.
- c. The plaster and sand mixture does not crack in the Spoon.
- d. By means of the Spoon work can be done with more ease, comfort, and certainty than by any other method.

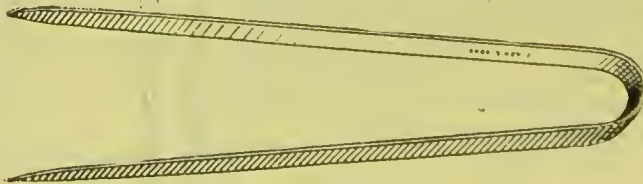
To remove the case from the Spoon.—Let the case cool, *place it in water for a few moments*, and then tap the Spoon lightly on the bench—this is all that is necessary.

It is well known that after a mixture of plaster and sand has once been made red-hot, it will fall to pieces if it be put into water.

| | | |
|-------------------------------------|------|-----|
| Price of Soldering Spoon | s. | d. |
| Extra gauzes for renewing | each | 0 6 |

WORKROOM TONGS.

(MR. WALTER SUTTON'S.)



8½ inches long.

For lifting or carrying articles which are too hot to be held in the hand.

| | | |
|---------------------------------|----|----|
| Price, in sheet Steel | s. | d. |
| | 1 | 0 |

PERFECT BOILING BURNERS.

(FLETCHER, RUSSELL & CO.'S.)



| No. | | Diameter across
Support for Vessels. | Gas Consumption
per Hour. | Price, as
engraved. | |
|------------|-------|---|------------------------------|------------------------|----|
| | | | | s. | d. |
| No. 6 P.B. | . . . | 5½ in. | 6 cubic feet | 2 | 6 |
| „ 10 P.B. | . . . | 6 in. | 10 „ | 2 | 9 |
| „ 14 P.B. | . . . | 7 in. | 14 „ | 3 | 0 |
| „ 18 P.B. | . . . | 8 in. | 18 „ | 4 | 0 |

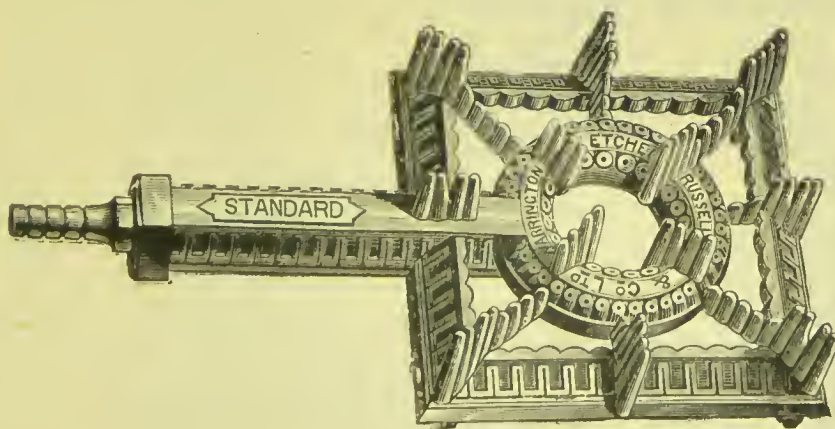
SQUARE STANDARD BURNER.

(FLETCHER, RUSSELL & CO.'S.)

Messrs. FLETCHER, RUSSELL & Co. say: “The demand for a good Burner with a square stand has been restricted on account of the cost of even the cheapest form known up to the present.

“This Burner is a modification of our well-known Standard Burner.

“Square Standard No. 15, size 6 in. square. Gas consumption, 15 cubic feet per hour.”

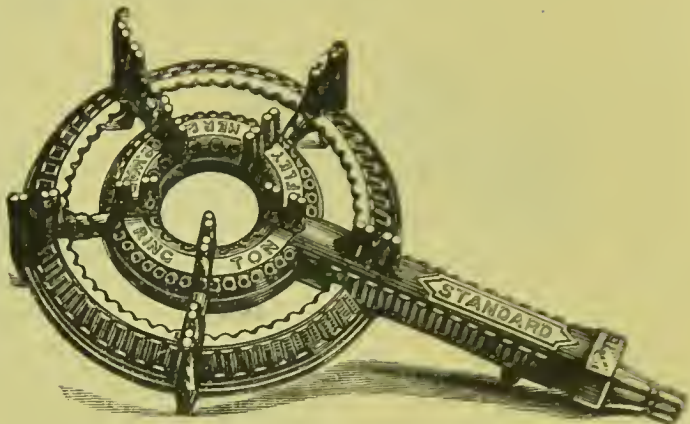


| | | |
|-----------------|----|----|
| Price | s. | d. |
| | 3 | 0 |
| | | X |

STANDARD GAS BURNERS.

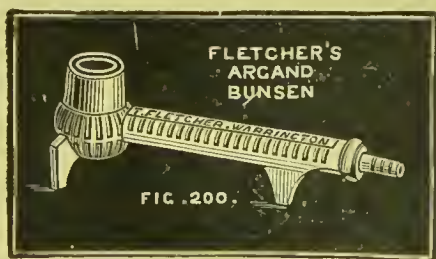
(FLETCHER, RUSSELL & CO.'S.)

These Burners are designed as a complete series of the highest and most perfect class, in the simplest possible form, and in one single casting.



| | | | | |
|---------|---|------|----|----|
| No. 10. | Diameter across support for vessels, $5\frac{1}{2}$ in. | each | s. | d. |
| " 15. | " " " " " 7 " | " | 2 | 6 |
| " 20. | " " " " " 8 " | " | 3 | 9 |

The numbers give approximately the maximum gas consumption at day pressure of gas equal $\frac{1}{10}$, and also the number of quarts of water they will boil in one hour in a light, broad-bottomed copper vessel.

**ARGAND BUNSEN GAS BURNER.**

Very useful for modelling and for small general work.

| | | |
|------------------|----|----|
| | s. | d. |
| Large size . . . | 2 | 9 |
| Small " . . . | 2 | 3 |

BUNSEN BURNER.

(FLETCHER'S No. 3 SIZE.)

For modelling and for general purposes, consuming about 5 cubic feet of gas per hour.

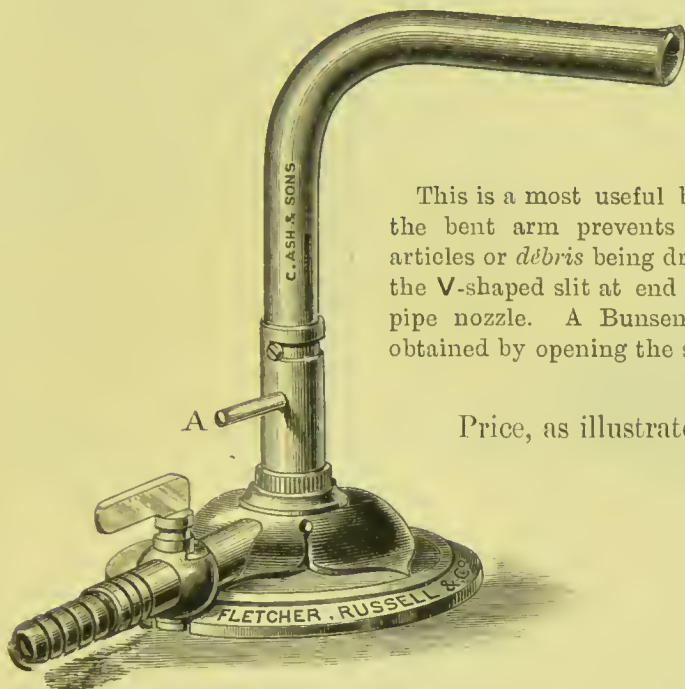
It is supplied with a bent detachable tube to prevent the drip falling on the flame when the burner is used for softening wax, or any other easily melted material.

By closing the sliding cap A, an illuminating flame can be obtained.



| | | |
|---------------------------------------|----|----|
| Price, on Brass Stand, as illustrated | s. | d. |
| | 4 | 2 |

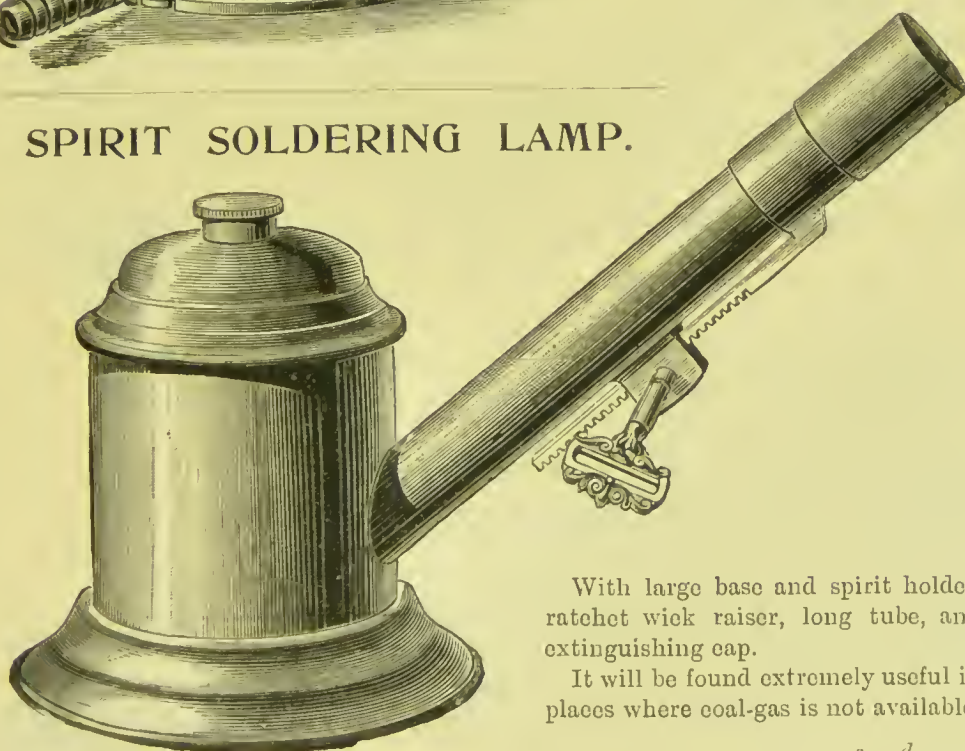
WATTS' COMBINED BUNSEN AND BLOWPIPE BURNER.



This is a most useful burner for blowpipe work ; the bent arm prevents the possibility of small articles or *débris* being dropped down the tube, and the V-shaped slit at end forms a rest for the blow-pipe nozzle. A Bunsen flame can be instantly obtained by opening the shutter A.

| | |
|---------------------------------|-------|
| | s. d. |
| Price, as illustrated | 4 6 |

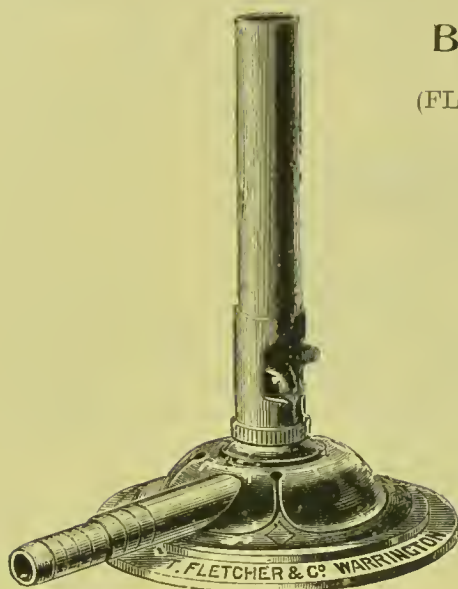
SPIRIT SOLDERING LAMP.



With large base and spirit holder, ratchet wick raiser, long tube, and extinguishing cap.

It will be found extremely useful in places where coal-gas is not available.

| | |
|---------------------------------|-------|
| | s. d. |
| Price, as illustrated | 7 6 |
| | X 2 |



BUNSEN BURNER.

(FLETCHER, RUSSELL & CO.'S.)

FOR MODELLING AND FOR GENERAL PURPOSES.

These are the ordinary brass tube Bunsen. They are correctly proportioned in every detail, and of the full theoretical power, working up to their maximum calculated duty in every case. All are screwed for $\frac{3}{8}$ -in. connection.

The number gives the maximum gas consumption in cubic feet per hour at $\frac{10}{16}$ pressure.

All have air tubes; these enable the smaller sizes to be used with a blowpipe without the necessity of a loose internal tube.

| | Number | 3. | 5. | 6. | 8. | 12. |
|-----------------------------|--------|--------------------|--------------------|-------------------|-------------------|-------------------|
| Size of Tube outside . . . | | $\frac{3}{8}$ in. | $\frac{7}{16}$ in. | $\frac{1}{2}$ in. | $\frac{5}{8}$ in. | $\frac{3}{4}$ in. |
| Height, without Stand . . . | | $3\frac{1}{2}$ in. | $4\frac{1}{4}$ in. | 5 in. | 6 in. | 7 in. |
| | | s. d. | s. d. | s. d. | s. d. | s. d. |
| Price, without Staud . . . | | 0 7 | 0 9 | 0 10 | 1 0 | 1 6 |
| „ on Brass „ . . . | | 2 0 | 2 2 | 2 4 | 3 0 | 4 0 |
| „ „ „ with Tap . . . | | 3 0 | 3 2 | 3 4 | 4 0 | 5 0 |

Heavy round brass stands only are supplied. The objectionable nature of iron stands on a laboratory table is too well known to need any remark. The stand increases the total height about 1 inch. They can be supplied in clusters of 3, 4, 7 or 12 burners, or mounted on tubes in any form.

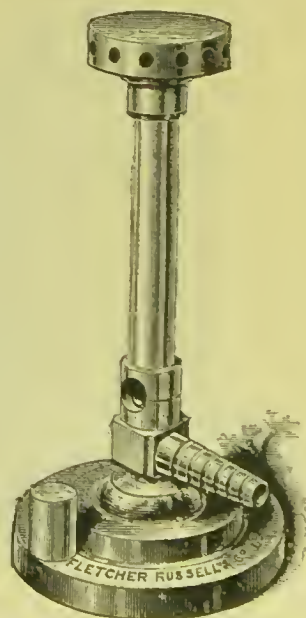
LABORATORY BUNSEN.

(FLETCHER, RUSSELL & CO.'S.)

Messrs. Fletcher, Russell & Co. say: "We have frequently been asked to make a correctly adjusted Bunsen for laboratory use, but have declined, owing to the very low price at which the common foreign burners are made. As we have, however, established a private demand for these burners, we have decided to put them on our list for the future. They are substantially made, correctly adjusted, the screws are English Standard threads, and the stand is formed with a carrier to hold the rose when not in use, so as to prevent its loss, which usually happens with the ordinary make. The roses are solid cored castings, not made out of thin parts stuck together, as is usual in the cheaper makes."

Height with rose as engraved, $5\frac{1}{2}$ inches.
Gas consumption, at $\frac{10}{16}$, 4 feet per hour.

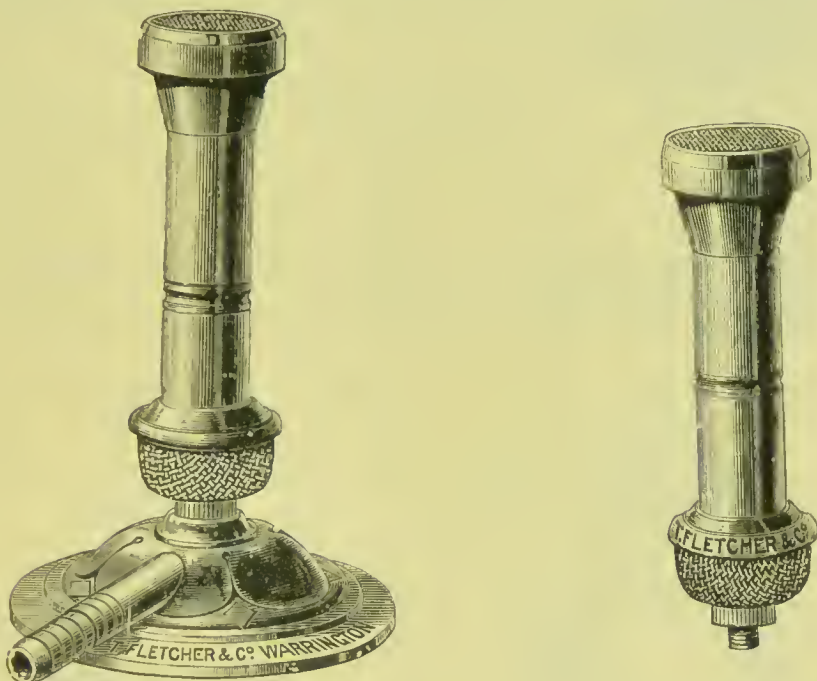
| | |
|--|-------|
| Price of Bunsen without rose | s. d. |
| Rose extra | 1 9 |
| | 0 7 |



IMPROVED SAFETY BUNSEN.

(FLETCHER, RUSSELL & CO.'S.)

FOR MODELLING, ANNEALING, AND OTHER PURPOSES.



These will be found as perfect as any upright burner can possibly be made, of the highest possible power for the size—can be turned down to the merest flicker without lighting back. They are made in three sizes, all in brass polished. The number gives the maximum gas consumption in cubic feet per hour at $\frac{10}{10}$ pressure. These burners can be supplied in clusters of any number, or mounted on tubes, any shape, and with or without taps, to order.

| | Number | 5. | 10. | 14. |
|--|--------|--------------------|---------------------|---------------------|
| Diameter across top of gauze | | $7\frac{1}{2}$ in. | $11\frac{1}{2}$ in. | $13\frac{1}{2}$ in. |
| Height, without Stand | | $3\frac{3}{4}$ in. | $4\frac{3}{4}$ in. | 6 in. |
| | | s. d. | s. d. | s. d. |
| Price, without Stand. | | 1 9 | 2 3 | 3 0 |
| „ on Brass „ | | 3 6 | 4 6 | 5 9 |
| „ „ „ with Tap | | 4 6 | 5 6 | 6 9 |

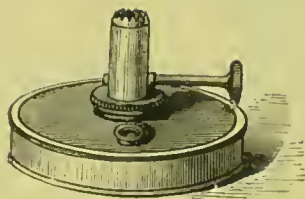
If placed a number together, on a tube or ring, they must be at least one-fourth the diameter of the top apart. The stand increases the total height about 1 inch.

SETS OF ABOVE (No. 10 Size).

Mounted in clusters, each burning 10 cubic feet of gas per hour.

| | | per set | s. d. |
|--|--|---------|-------|
| Four burners, consuming 40 feet per hour | | | 13 0 |
| Seven „ „ 70 „ | | | 20 0 |
| Twelve „ „ 120 „ | | | 33 6 |

Total height, 6 inches.

TIN SPIRIT LAMP.

5 in. high by 5 in. diameter.

With regulating wick-holder, suitable for heating Vulcanizers, and for soldering, etc.

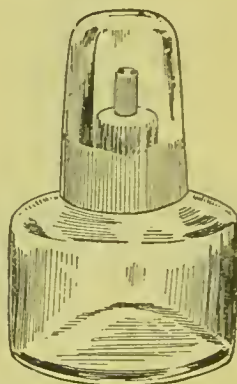
| | | |
|----------------------------|----|----|
| | s. | d. |
| Price, best make | 6 | 0 |

GLASS SPIRIT LAMPS WITH CAPS.

FOR MODELLING AND FOR GENERAL PURPOSES.



Shallow—4 inches high.



Deep—4 inches high.

| | | |
|------------------------------|----|----|
| | s. | d. |
| Price, either kind | 1 | 6 |

PERFECTED INJECTOR FURNACE.

(FLETCHER, RUSSELL & CO.'S.)

| | Size of Furnace—
Taking Crucible No. | 6-oz. | | 2-lb. | |
|--|---|-------|----|-------|----|
| | | 00 | | 1 | |
| | | s. | d. | s. | d. |
| Injector Furnace, for Gas | | 11 | 6 | 13 | 6 |
| Crucible Tongs | | 1 | 0 | 1 | 0 |
| „ Fireclay | | 0 | 1½ | 0 | 2 |
| „ Salamander | | 0 | 4½ | 0 | 5½ |
| Injector Furnace, for use with Kerosine or Petroleum | | 14 | 6 | — | |

OWEN'S GAS SOLDERING LAMP.

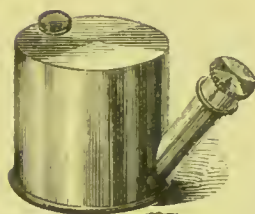
Useful also for modelling, etc.; consisting of a metal stand with bronzed pipe, and large wire coil burner; it has also a fine tube at the side, so that the flame may be turned down to a small jet, in order to save the gas at intervals when the lamp is left for other work, etc. Height, 8 inches.



| | s. | d. |
|-----------------|----|----|
| Price | 10 | 6 |

SPIRIT LAMP.

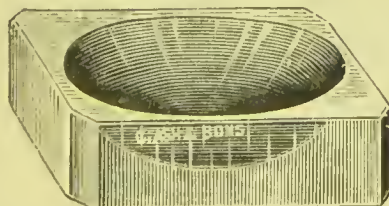
FOR SOLDERING, MODELLING, ETC.



Brass Spirit Lamp, with serew caps, for soldering, etc. It is substantially made, and well finished, and will be found very useful when travelling, the screw caps serving effectually against waste of the spirit.

| | s. | d. |
|--|----|----|
| 3½ in. high by 3 in. diameter. Price | 7 | 6 |

GLASS BORAX SLAB.

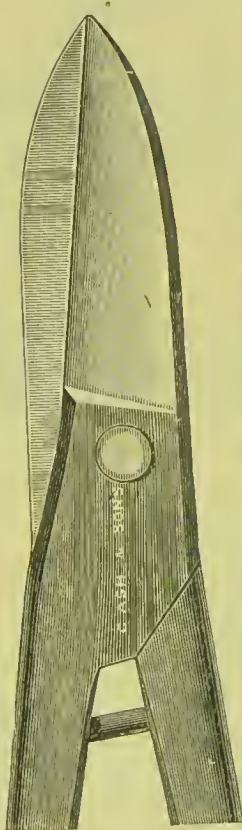


| | s. | d. |
|--|----|----|
| Made of pure white glass, ground inside the cup part | 1 | 0 |
| Borax, in lumps per lb. | 0 | 4 |

PLATE SHEARS.

FOR GENERAL WORK.

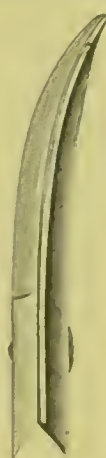
FOR CROWN WORK.



Left Side.

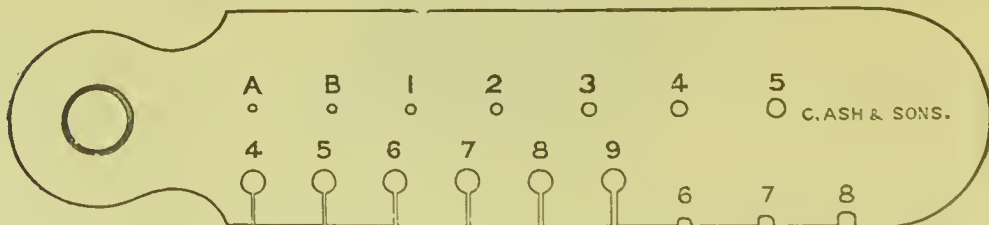
Side View
of Curved
Blades.

Right Side.

Side View
of Curved
Blades.

The Shears for general work (Stubs' manufacture) are made in right and left sides in two sizes—7 inches and 8 inches long. The Shears for Crown work have fine blades and light handles. They are only made in one size as illustrated—7 inches long.

| | | | 7-inch. | 8-inch. |
|--------------------------------|-------------------------|------|---------|---------|
| | | | s. d. | s. d. |
| Plate Shears for general work, | straight | each | 1 0 | 1 6 |
| " " | curved | " | 1 6 | 5 0 |
| Plate Shears for Crown work, | straight, Nickel-plated | " | 2 0 | — |
| " " | curved, " | " | 2 6 | — |

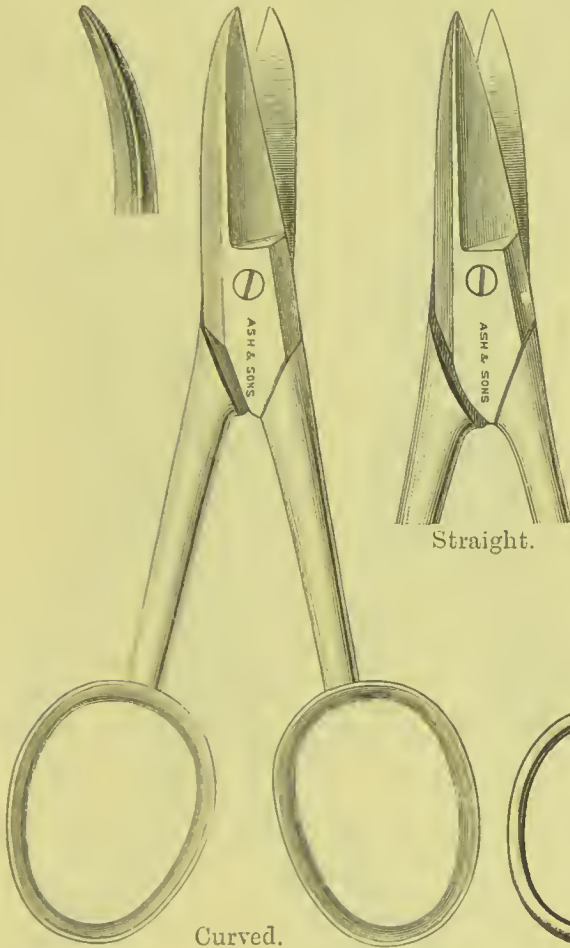
ASH'S PLATE AND WIRE GAUGE.

A, B, 1, 2, 3, 4, 5 show our round wire sizes; Nos. 6, 7, 8 our half-round wire sizes; Nos. 4, 5, 6, 7, 8, 9 on the lower part of the Gauge show our plate sizes.

Price of Gauge, as illustrated, in polished Steel 7 6

IMPROVED PLATE SCISSORS.

(MR. GIRDWOOD'S.)



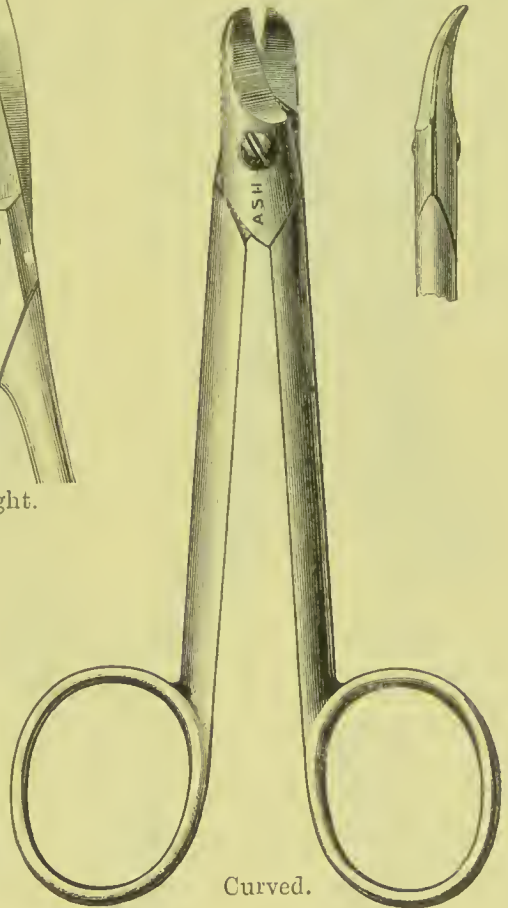
Straight.

Curved.

FULL SIZE.

CROWN AND COLLAR SCISSORS.

(DR. J. H. BEEBEE'S.)



Curved.

Specially adapted for the use of Crown and Bridge Workers.

Improved Plate Scissors (Mr. Girdwood's).—These Scissors are more easily handled than small shears, and allow of sharp curves and angles to be readily cut, and Mr. Girdwood finds them plenty strong enough for crown-gold, etc.

| | | s. | d. |
|---------------------------------|------|----|----|
| Curved Scissors, Nickel-plated. | each | 4 | 0 |
| Straight „ „ | „ | 2 | 6 |

Crown and Collar Scissors (Dr. J. H. Beebee's).—Most useful for cutting and trimming gold collars and crowns.

| | s. | d. |
|----------------------|----|----|
| Price, Nickel-plated | 4 | 6 |

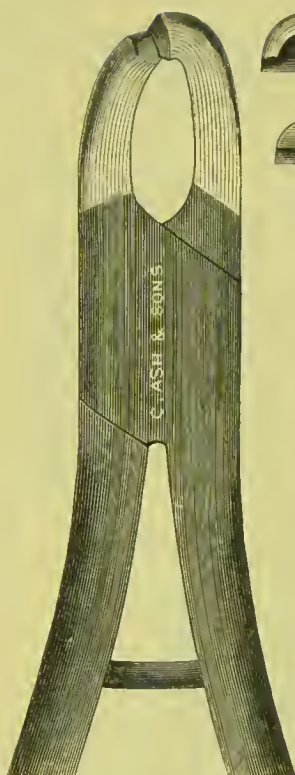


PLATE CUTTERS

OR NIPPERS.

(STUBS'.)

With round noses, large, medium, and small, s. d.
as illustrated, 6 inches long . each 5 0

ROUND-NOSE NIPPERS.

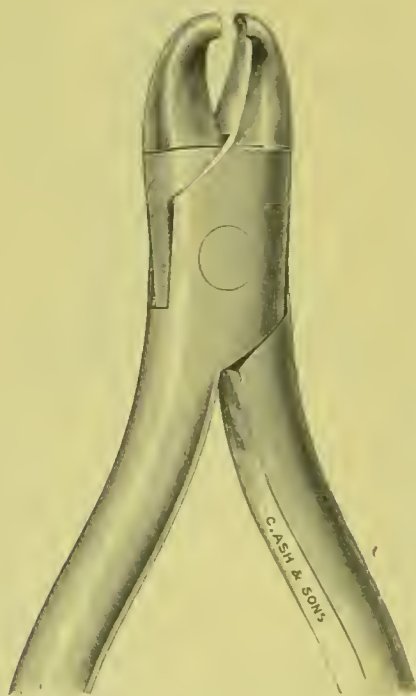


PLATE BENDERS.

(UPPER.)

(LOWER.)



Plate Benders, $7\frac{1}{4}$ inches s. d.
long . . . each 5 6

Improved form with curved chops, for cutting off pins inside plates. It is a most convenient tool for use in places which are difficult of access.

Round-Nose Nippers, s. d.
 $5\frac{1}{2}$ inches long . . 4 6

PLIERS, VARIOUS.

PLATE.

HOLLOW CHOP.

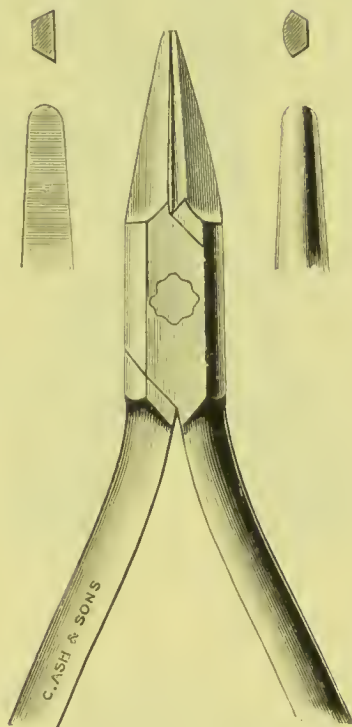


5½ inches long.



5½ inches long.

COLLAR.



5 inches long.

CLASP BENDERS.



7 inches long.

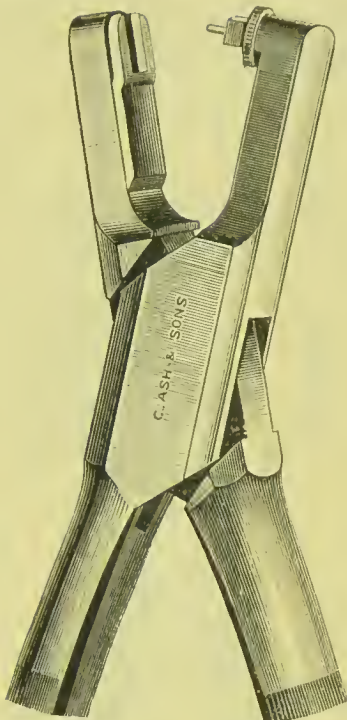
Hollow-Chop Pliers, with one oval and one hollow chop, for bending clasps, making collars, bands, etc. . . . each 2 6

Plate Pliers, with oval and hollow chops for bending clasps, etc. This has been suggested to us as an improved form of pliers for the work in question, and we think it will be liked on account of its lightness . . . each 3 0

Collar Pliers, with flat and rounded chops, in bright polished Steel . . . each 2 0

Ditto ditto Nickel-plated „ 3 0

Clasp Benders, with one oval and one hollow chop . . . each 5 6



6½ inches long.

**A****PIN NIPPERS.**

FOR PUNCHING HOLES IN METAL
BACKINGS FOR FLAT TEETH.

| | s. | d. |
|---|----|----|
| Price, Nickel-plated, including 6 Pins | 5 | 6 |
| Extra Pins per doz. | 1 | 0 |
| Pin-Holder A , extra, for renewing | 1 | 6 |

ASH'S PERFECTED PIN- HOLE NIPPER,

WITH ADJUSTABLE GAUGE.

By means of the gauge the distance between
the pins of the tooth can be accurately measured.

| | s. | d. |
|---------------------------------------|----|----|
| Price, complete with 6 Pins | 9 | 0 |

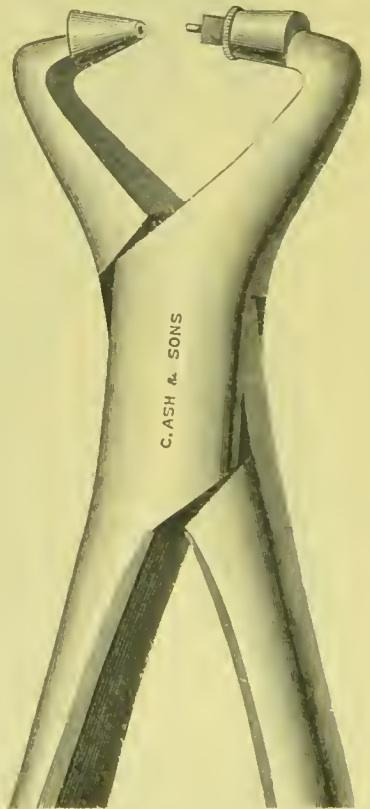
PERFORATORS.

FOR PUNCHING HOLES IN METAL
PLATES FOR TUBE WORK.

There is a flat spring between the handles
which is not shown in the illustration.

| | | |
|---|----|----|
| Price, in polished Steel, with black | s. | d. |
| handles and 6 Pins | 6 | 6 |
| Extra Pins per doz. | 1 | 0 |
| Pin-Holder, extra, for renewing | 1 | 6 |

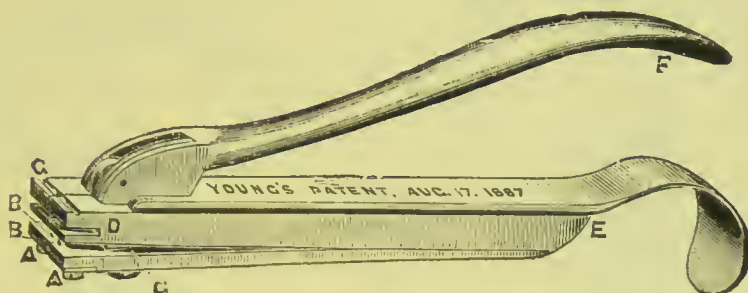
This tool is also supplied, at the same
price, with pin-holder and pins the same
size as in the Pin Nippers, for punching
holes in metal backings for flat teeth.



7½ inches long.

YOUNG'S ADJUSTABLE PERFORATORS.

FOR PUNCHING TWO HOLES AT ONCE.



Mr. Young claims that his tool secures, rapidly and with mathematical precision, exact correspondence between the holes in the metal plate used for backing teeth, and the pins of the tooth to be backed. It provides also for the quick and easy disengagement of the plate from the perforating pins after punching. The difficulty of separating, without twisting or injuring the perforated plate (the greatest obstacle to punching two holes at once), is entirely removed.

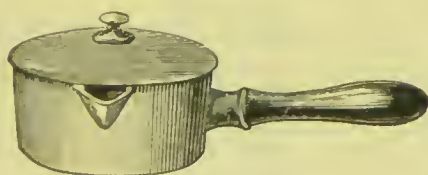
The risk of fracture in backing teeth is reduced to a minimum.

No measuring is required. The tooth is its own gauge, virtually punching its own holes.

Directions for Use sent with each.

| | s. | d. |
|--|----|----|
| Price | 15 | 0 |
| * „ with Set Screw | 16 | 6 |
| Either kind, Nickel-plated extra | 1 | 0 |
| Extra Pins per doz. | 2 | 0 |

* By means of the Set Screw the jaws can be locked at any desired point.



PORCELAIN.

ACID BOILING PANS.

| | s. | d. |
|---------------------------------|----|----|
| Porcelain, 3½ in. diameter each | 2 | 9 |
| Copper, round, 4 in. diameter „ | 2 | 0 |
| „ „ 3½ in. „ „ | 1 | 9 |

ACIDS FOR THE LABORATORY.

| | s. | d. |
|--|----|----|
| Muriatic or Hydrochloric per lb. | 0 | 6 |
| Nitric „ | 1 | 0 |
| Sulphuric „ | 0 | 6 |
| Bottles are charged extra each | 0 | 6 |

N.B.—We do not export these Acids.

CONTOURING PLIERS.

FIG. 1.

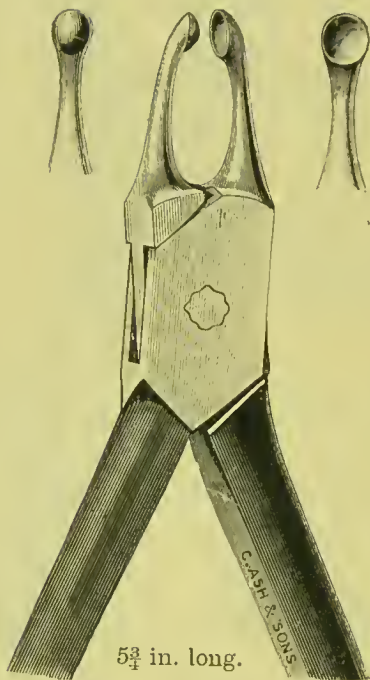
5 ³/₄ in. long.

FIG. 2.

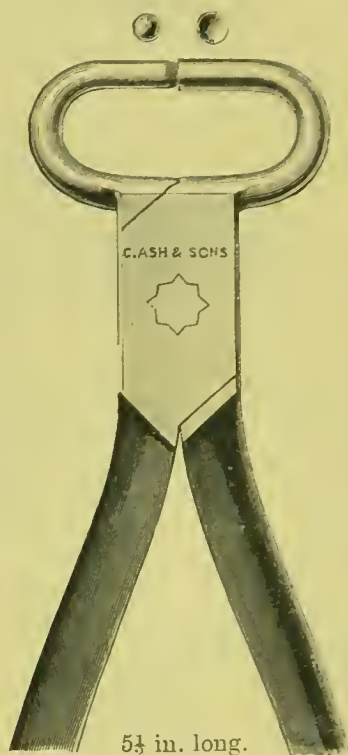
5 ¹/₂ in. long.

FIG. 3.

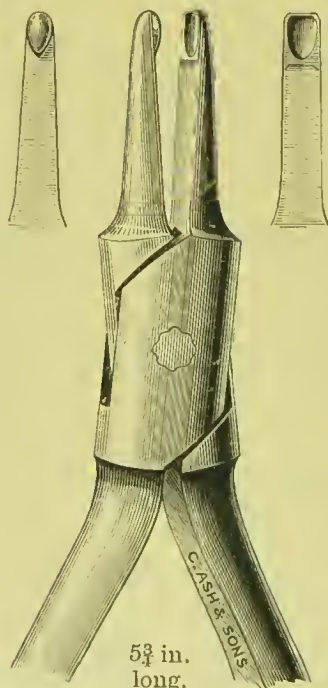
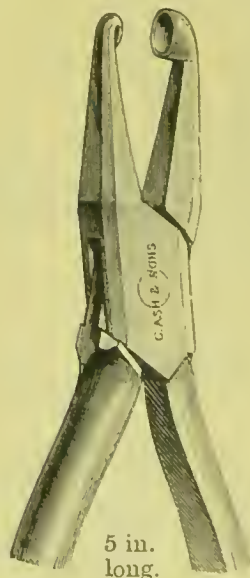
5 ³/₄ in.
long.

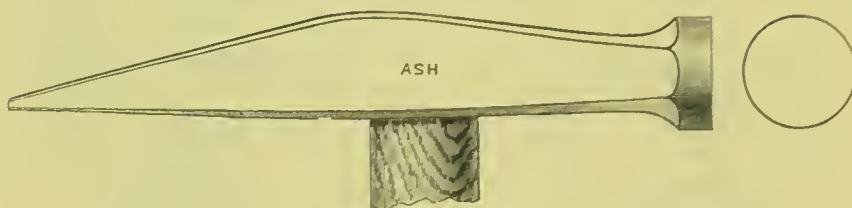
FIG. 4.

5 in.
long.

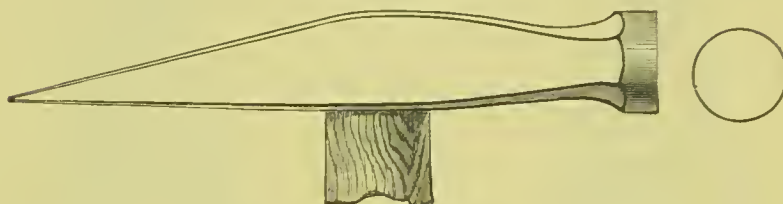
| | | | |
|---|-------------------|----|----|
| Contouring Pliers (Dr. J. J. R. Patrick's), Nickel-plated . . . | (Figs. 1, 2) each | s. | d. |
| " " (Dr. W. Mitchell's), Nickel-plated . . . | (" 3, 4) " | 6 | 6 |
| | | 6 | 6 |

RIVETING HAMMERS.

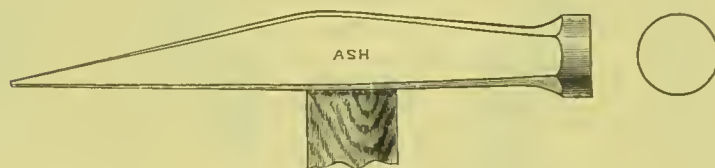
(STUBS'.)



LARGE.



MEDIUM.

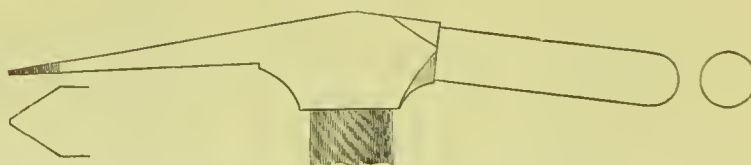


SMALL.

| | | | |
|---|------|----|----|
| Riveting Hammers, Large, Medium, or Small | each | s. | d. |
| Extra Handles for any size | „ | 0 | 4 |

RIVETING HAMMER.

(DESIGNED BY MR. W. W. DYKES.)



Mr. Dykes says: "This Hammer will be found useful in dishing bands to fit the contour of molars and bicuspidis, for touching up the cusps of gold crowns, putting a finish upon the heads of pins in riveting backs upon flat teeth, etc., etc.

"It was specially designed to ensure the easy and thorough cupping of the rubber discs—Hall's, Lord's, and others—in suction uppers, and for making a solid smooth head on the pin in the counter-sink. While in the act of riveting there is no danger with the rounded end of chipping or indenting the vulcanite or of injuring the washer which is used with Hall's disc."

| | | |
|-----------------------------|----|----|
| Price, complete with Handle | s. | d. |
| | 1 | 6 |

Hammers for striking up plates supplied to order.

LIGHT ANVIL,

FOR CROWN WORK, Etc.

The bright part is nickel-plated, and the base on which it is mounted is japanned black.

| | | |
|-----------------|----|----|
| | s. | d. |
| Price | 4 | 0 |

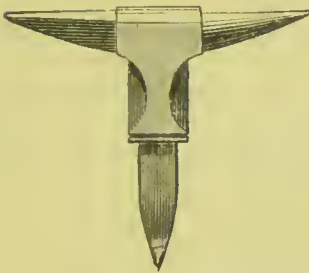


ABOUT HALF-SIZE.

BEAK IRONS,

WITH TANG AND ON STAND.

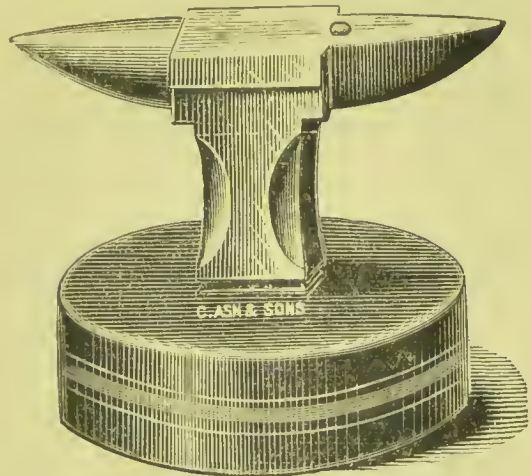
(STUBS'.)



WITH TANG.

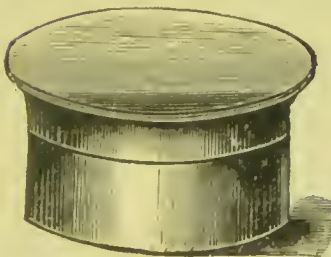
For Crown Work and for general use.

Supplied in one size, "about $\frac{7}{8}$ inch across the face.



ON STAND, HALF-SIZE.

| | | |
|----------------------------|----|----|
| | s. | d. |
| Price, with Tang | 3 | 6 |
| „ on Stand | 5 | 6 |



BOXES FOR METAL SCRAPS.

In Japanned Tin, Circular, with Sifters.

| | | |
|---|----|----|
| | s. | d. |
| Made in three sizes { $3\frac{1}{4}$ in. diameter, each | 1 | 3 |
| 4 in. „ „ | 1 | 6 |
| $4\frac{1}{2}$ in. „ „ | 1 | 9 |

METALS, VARIOUS.

| | s. | d. |
|--|----|----|
| Aluminium in sheets 15 × 6 inches per sheet | 1 | 0 |
| „ Wire in 1-oz. hanks. per hank | 0 | 6 |
| Babbitt's Metal, for making Dies per lb. | 3 | 0 |
| Bismuth, obtained to order at current price. | | |
| Copper, fine, in grain per oz. 3d. | 2 | 0 |
| Lead (price fluctuates) „ | 0 | 3 |
| Lead in thin sheets, for patterns, etc. „ | 0 | 7 |
| Mercury, common, for Vulcanizers and Batteries „ | 5 | 0 |
| Meter Metal for Humby's Swager, thick or thin „ | 2 | 6 |
| Nickel, plate and wire „ | 5 | 0 |
| Soft Solder per packet | 0 | 6 |
| Spence's Metal, sulphide of iron, for models per lb. | 1 | 0 |
| Tin in Bars (price fluctuates) „ | 2 | 0 |
| „ in Grain „ „ „ | 2 | 3 |
| Weston's Metal and Solder per packet | 4 | 2 |
| Zinc (price fluctuates) „ | 0 | 4½ |

Other Metals supplied to order.

SCALES AND WEIGHTS,

FOR WEIGHING PRECIOUS METALS, Etc.

| | s. | d. |
|---|----|----|
| Scales, with Pillar, Beam, etc., to fold and pack | | |
| in the drawer of the mahogany stand . . . 10 in. by 5 in. | 24 | 0 |
| Ditto ditto ditto . . . 8 in. by 4¼ in. | 20 | 0 |
| Scales, common, in Oak Box 9 in. by 4½ in. | 10 | 6 |
| Set of Cup Weights, Troy 1 oz. to ⅟ ₁₀ per set | 2 | 9 |
| „ „ „ 2 ozs. to ⅟ ₁₀ „ | 3 | 3 |
| „ „ „ 3 ozs. to ⅟ ₁₀ „ | 3 | 9 |
| „ „ „ 5 ozs. to ⅟ ₁₀ „ | 5 | 0 |
| „ „ „ 10 ozs. to ⅟ ₁₀ „ | 7 | 6 |
| Set of Weights, Decimals of the ounce Troy '5 to '001 | 4 | 0 |
| „ „ Drachms and Scruples „ | 1 | 6 |

Other Scales and Weights supplied to order.

PLATE PUNCHES.

These Punches are used for forcing metal plates close to the necks of the teeth while on the metal casts. They are made in three widths—broad, medium, and narrow. The illustrations show the medium width.

FLAT.



THIN OVAL.



HOLLOW.

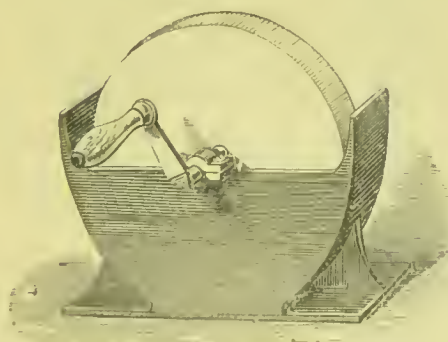


| | | | |
|---|-----------------|----|----|
| In polished Steel | each | s. | d. |
| „ Brass | „ | 0 | 9 |
| Copper-plate Punches, Mr. W. Booth Pearsall's, in four shapes | „ | 0 | 6 |
| Steel Numbers for Stamping Metal Plates | per set of nine | 1 | 0 |
| Steel Numbers or Letters, to order, per number or letter . | from | 5 | 6 |
| | | 0 | 6 |

CALLIPERS, GRINDSTONES, AND DIVIDERS.



CALLIPERS.



GRINDSTONE.



DIVIDERS.

| | | | |
|--|------|----|----|
| Callipers, bright Steel, for gauging plates, etc., $3\frac{1}{2}$ in. long | each | s. | d. |
| Dividers, spring Steel, with Set Screw, $4\frac{1}{2}$ in. long . . . | „ | 2 | 3 |
| Grindstones, for Hand, in Trough, 6 to 12 in. diameter . | from | 3 | 0 |
| „ for Lathes, about 3 in. diameter | each | 5 | 6 |
| | | 1 | 6 |

Other Grindstones supplied to order.

TOOTH BRUSHES WITH BONE HANDLES.

Made with Hard, Medium, and Soft Bristles.

FIRST QUALITY.

| | | per gross. | | per doz. | |
|---|-------------------------|------------|----|----------|----|
| | | s. | d. | s. | d. |
| Adults' | (Figs. 1, 2 and 3) | 90 | 0 | 8 | 0 |
| " | (Fig. 4) | 96 | 0 | 8 | 6 |
| Children's | (, 4) | 84 | 0 | 7 | 6 |
| " | all forms except Fig. 4 | 57 | 0 | 5 | 3 |
| Palate Brushes, round and square forms | | 90 | 0 | 8 | 0 |
| Any of the above with very hard bristles, extra | | | | 1 | 0 |
| Double-ended Brushes in Horn Handles, one end for the teeth, the other for the plate | | per doz. | | 9 | 6 |
| Badger's-hair Brushes for solutions, Adults' | | ,, | | 14 | 0 |
| " " " Children's | | ,, | | 8 | 0 |
| Black Tooth Brushes, best quality, for tinctures and solutions; length of brush-head, 1½ inches, form of Fig. 1 | | ,, | | 7 | 6 |

Tooth Brushes made to Dentists' own patterns by the gross.

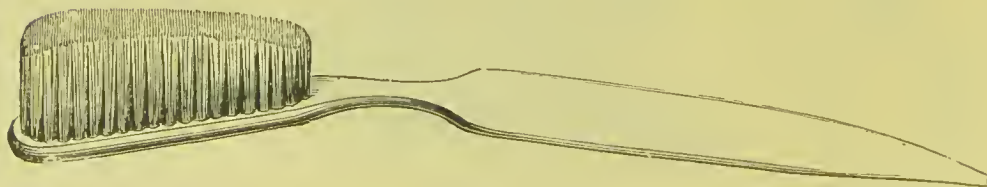
All forms of Tooth Brushes made or obtained to order.

Steel Punches, with name, title, etc., made to order, 6*d.* per letter.

Tooth Brushes stamped with name, etc., free of charge.

DENTURE BRUSH,

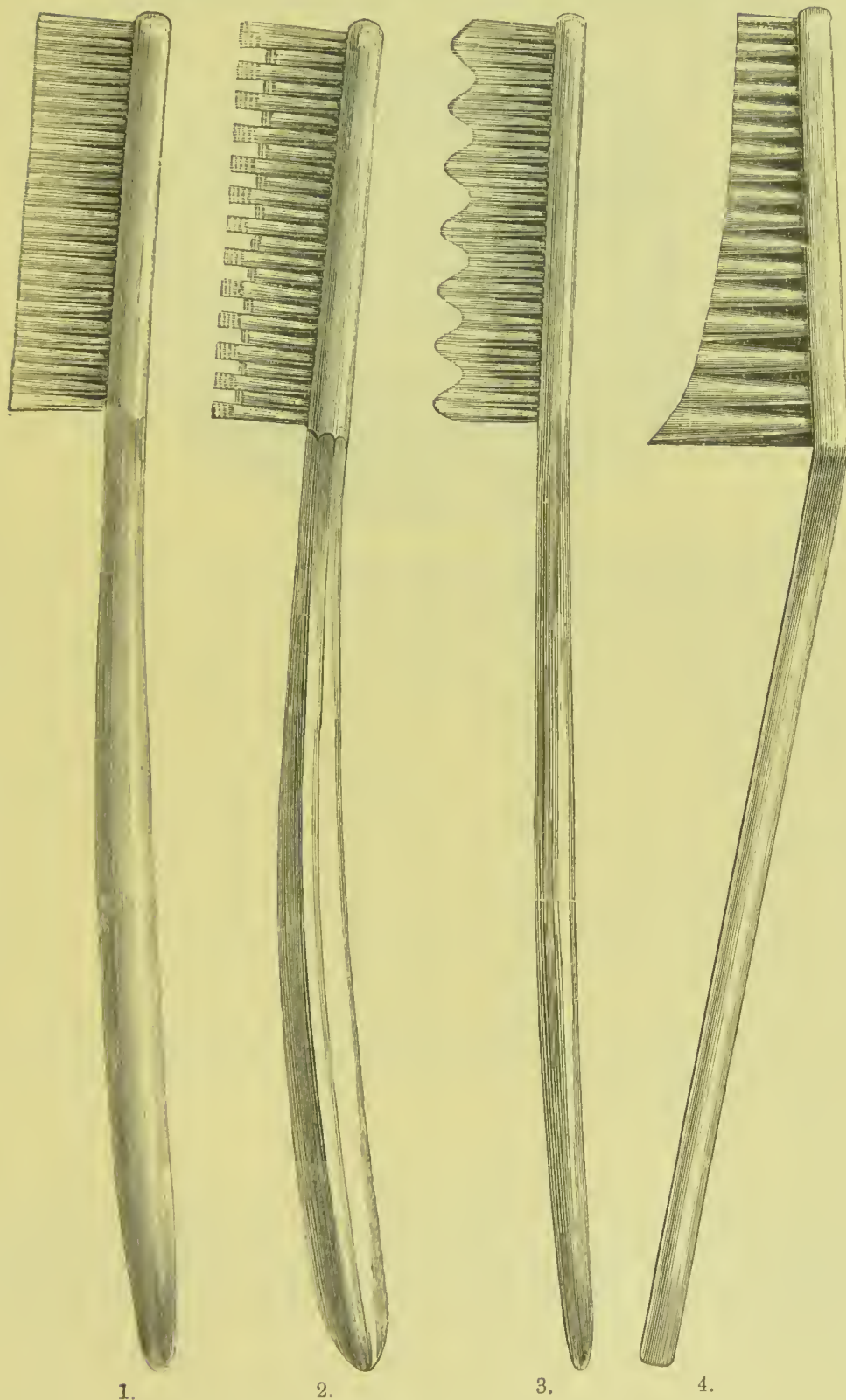
FOR CLEANING ARTIFICIAL DENTURES.



The peculiar form of the Brush, combined with the flat point at the end of the handle, is specially adapted for removing the unpleasant deposit so often found on artificial teeth. It is made with hard bristles.

| | | | |
|-----------------|----------|----|----|
| Price | per doz. | s. | d. |
| | | 9 | 0 |

FORMS OF TOOTH BRUSHES.



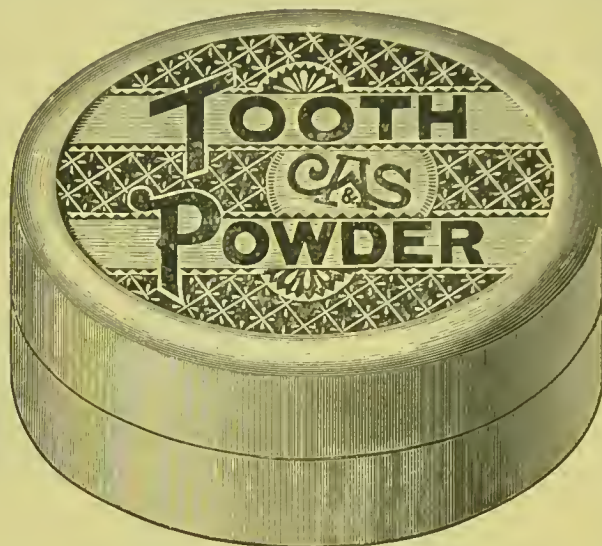
1.

2.

3.

4.

METAL TOOTH POWDER BOXES.



Made of Tin, in two sizes—Small and Large. Each size is supplied in two colours—Silver and Bronze. The Small holds 1 oz., and the Large 1½ ozs. of Tooth Powder. They are far superior to wooden boxes, cleanly in use, unaffected by climatic conditions, and consequently do not swell or shrink during wet or dry weather.

| | Silver colour. | | | | Bronze. | | | |
|---|----------------|----|----------|----|------------|----|----------|----|
| | per gross. | | per doz. | | per gross. | | per doz. | |
| | s. | d. | s. | d. | s. | d. | s. | d. |
| Small, labelled Tooth Powder | 15 | 0 | 1 | 6 | 18 | 0 | 1 | 9 |
| Large " " " " | 18 | 0 | 1 | 9 | 21 | 0 | 2 | 0 |
| *Small, without Labels | 12 | 0 | 1 | 3 | 15 | 0 | 1 | 6 |
| *Large " " | 15 | 0 | 1 | 6 | 18 | 0 | 1 | 9 |

We are prepared to supply any of the above Boxes filled with our Tooth Powders mentioned on the next page at an extra charge of s. per lb. for the Powder.

* These unlabelled boxes are supplied by the gross with the Dentist's own labels on them, provided not less than five gross (730) of labels are ordered at a time.

If fewer than five gross of boxes are ordered at the same time as the labels, the labels which are over will be held at the disposal of the owner for future use. The cost of such special labels increases the price of each kind and size of box by 8s. per gross.

ASH'S TOOTH POWDERS.

These Powders are prepared with great care, the ingredients being thoroughly well ground and mixed. The materials of which they are composed are of the purest quality, and such as are generally recommended by the best authorities.

No. 1, Fine, Scented with Oil of Bergamot.

„ 2, Medium, „ „ and Otto of Roses.

„ 3, Coarse, „ „

Supplied in 1-lb. Tins per lb. s. d.
4 0

A discount of 10 per cent is allowed off 5 lbs.

Special Terms for Tooth Powders in larger quantities than 5 lbs.

TOOTH PICK.

(MR. PALMER'S.)



FULL SIZE.

In Gold, set in Ivory, fitted in square ivory handle, inside which it slides.

Price each s. d.
5 0

Other Tooth Picks supplied to order.

EUTHYMOL TOOTH PASTE.

AROMATIC, DEODORANT, ANTISEPTIC.

(PARKE, DAVIS & CO.'S.)

This is a superior preparation containing Euthymol with other carefully selected and harmless ingredients. Supplied in collapsible tubes.

Price per doz. s. d.
9 6

| | | s. d. |
|------------------------------|---------|-------|
| Cuttle-Fish Powder | per lb. | 2 0 |
| Orris Root | „ | 2 0 |
| Precipitated Chalk | „ | 0 6 |
| Prepared „ | „ | 0 3 |

SOLID TOOTH PASTE.



This Tooth Paste is composed of the best and purest materials obtainable; it is a most agreeable and refreshing dentifrice, and we can strongly recommend it as an elegant toilet requisite.

Supplied in Glass Boxes, also in Tin Boxes with glass lids, flavoured with Rose, Cherry, or Peppermint.

| | | s. | d. |
|---|-------------------|-----|----|
| In Glass Boxes, any flavour | per box | 0 | 10 |
| " " " | „ doz. | 9 | 0 |
| " " " | „ gross | 100 | 0 |
| In Metal Boxes with Glass Lids, any flavour | . „ box | 0 | 9 |
| " " " | " " „ doz. | 8 | 0 |
| " " " | " " „ gross | 84 | 0 |

Solid Tooth Paste can be had stamped with the Dentist's own name and address on the following condition:—

Not less than one gross to be ordered at a time.

No charge is made for stamping beyond the first cost of the die, which is twenty shillings. The die will serve for a long time.

ASH'S TOOTH TABLET.

IN TURQUOISE BLUE CELLULOID BOXES.

This Tablet can be had stamped with the Dentist's own name and address, on condition that not less than one gross be ordered at a time. No charge is made for stamping beyond the first cost of the die, which is twenty shillings. The die will serve for a long time.

The Box can also be had in White, Blue, Pink, or assorted, with the Dentist's name and address on lid, at a cost of 8s. 6d., provided not less than one gross be ordered. When five gross or more are ordered at a time no charge is made for the name plate.



Elegant and refreshing. Made in three flavours—Rose, Peppermint, and Aromatic.

| | | s. | d. |
|-----------------|-----------|----|----|
| Price | per doz. | 4 | 6 |
| .. . . . | per gross | 48 | 0 |

THE ANT-ACID TOOTH TABLET.



An agreeable and refreshing dentifrice. Put up in pink-coloured celluloid boxes.

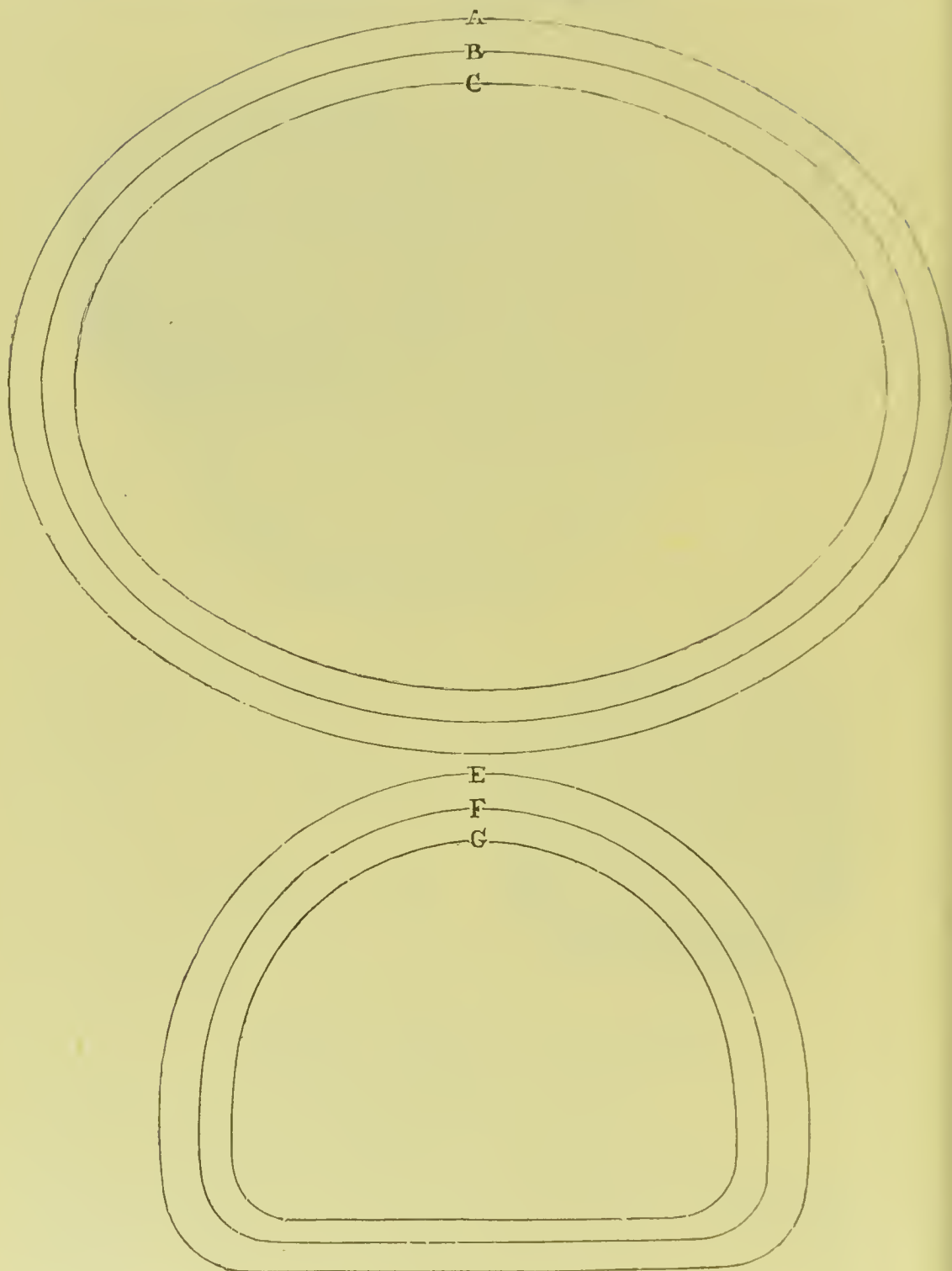
| | | s. | d. |
|-----------------|-----------|----|----|
| Price | per doz. | 6 | 0 |
| „ | per gross | 60 | 0 |

AMERICAN TOOTH SOAP.

(THE S. S. WHITE D. M. CO.'S.)

Mint, Wintergreen, and Rose Flavours.

| | | s. | d. |
|--|----------|----|----|
| Mint Flavour, in cardboard boxes | per doz. | 8 | 4 |
| Wintergreen, „ „ | „ | 8 | 4 |
| Rose, „ „ | „ | 10 | 5 |

SIZES OF CASES.

LEATHER CASES.

The sizes on the opposite page represent the **outside** dimensions of each case. The **inside** measurements are, roughly speaking, about an eighth of an inch less each way.

Names, addresses, etc., printed inside the lids of **first quality** cases to order, at the expense of the buyer, when purchased by the dozen.

OVAL.

| | Sizes | A. | B. | C. |
|--------------------------------------|-------|-------|-------|-------|
| | | s. d. | s. d. | s. d. |
| First quality, with Spring | each | 2 6 | 2 0 | 2 0 |
| Second „ „ | „ | 2 0 | 1 9 | 1 7 |

HALF-OVAL.

| | Sizes | E. | F. | G. |
|--------------------------------------|-------|-------|-------|-------|
| | | s. d. | s. d. | s. d. |
| First quality, with Spring | each | 1 9 | 1 7 | 1 3 |
| Second „ „ | „ | 1 3 | 1 1 | 1 0 |

Other sizes supplied to order.

A discount of 10 per cent. is allowed when Leather Cases are purchased by the dozen.

CARD BOXES.

FOR HOLDING ARTIFICIAL DENTURES, Etc.

| | Sizes as on page 333. | Nos. 2. | | 4. | | 6. | |
|--------------------------------|-----------------------|---------|----|----|----|----|----|
| | | s. | d. | s. | d. | s. | d. |
| Drab, with red edges | per doz. | 5 | 0 | 3 | 0 | 2 | 0 |

TOUGH BOXES FOR POST PARCELS, Etc.

STRENGTHENED WITH METAL AT THE CORNERS.

| | | s. | d. |
|-----------------------|----------|----|----|
| For sets | per doz. | 1 | 6 |
| „ half-sets | „ | 1 | 3 |
| „ pieces | „ | 0 | 10 |

Less 10 per cent. by the gross. These boxes are light, very strong, and extensively used.

Cases or Boxes in Card, Wood, Leather, Britannia Metal, or Japanned Tin made to order or special directions.

LEATHER CASES.

The sizes on the opposite page represent the outside dimensions of each case. The inside measurements are, roughly speaking, about an eighth of an inch less each way.

Names, addresses, etc., printed inside the lids of the first quality to order, at the expense of the buyer, when purchased by the dozen.

SQUARE.

| | Sizes | 2. | | 4. | | 6. | |
|---|-------|----|----|----|----|----|----|
| | | s. | d. | s. | d. | s. | d. |
| First quality, with Lock and Key . . . each | | 5 | 0 | 3 | 3 | — | |
| „ „ with Spring . . . „ | | 2 | 3 | 1 | 9 | 1 | 3 |
| Second „ „ . . . „ | | 1 | 10 | 1 | 6 | 1 | 1 |

HALF-OVAL.

FOR LOWER PIECES.

| | Sizes | 9. | | 11. | | 13. | |
|---|-------|----|----|-----|----|-----|----|
| | | s. | d. | s. | d. | s. | d. |
| First quality, with Spring each | | 1 | 6 | 1 | 4 | 1 | 1 |
| Second „ „ . . . „ | | 1 | 2 | 1 | 1 | 1 | 0 |

Other sizes supplied to order.

A discount of 10 per cent. is allowed when Leather Cases are purchased by the dozen.

SHOULDERED WOOD BOXES.

For holding artificial dentures. They are very strong, and may be sent through the post without fear of being broken.

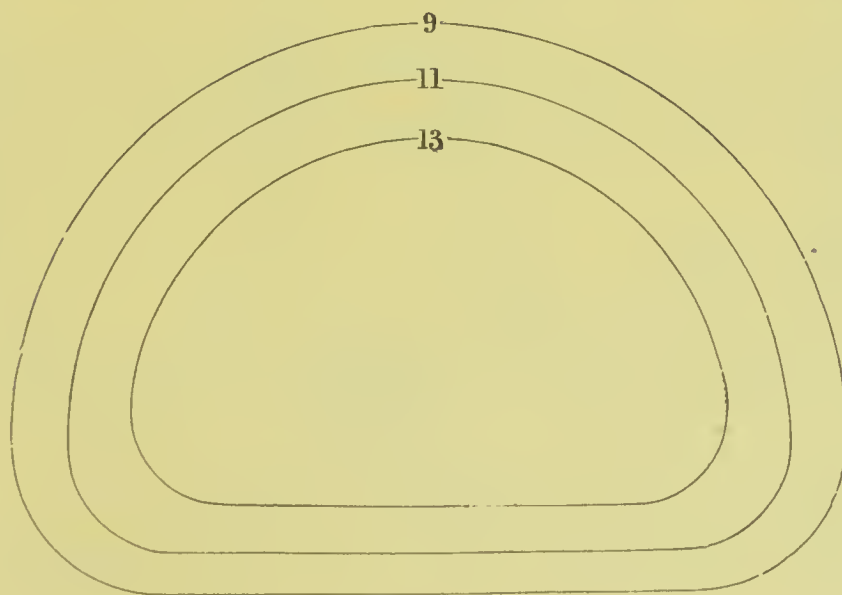
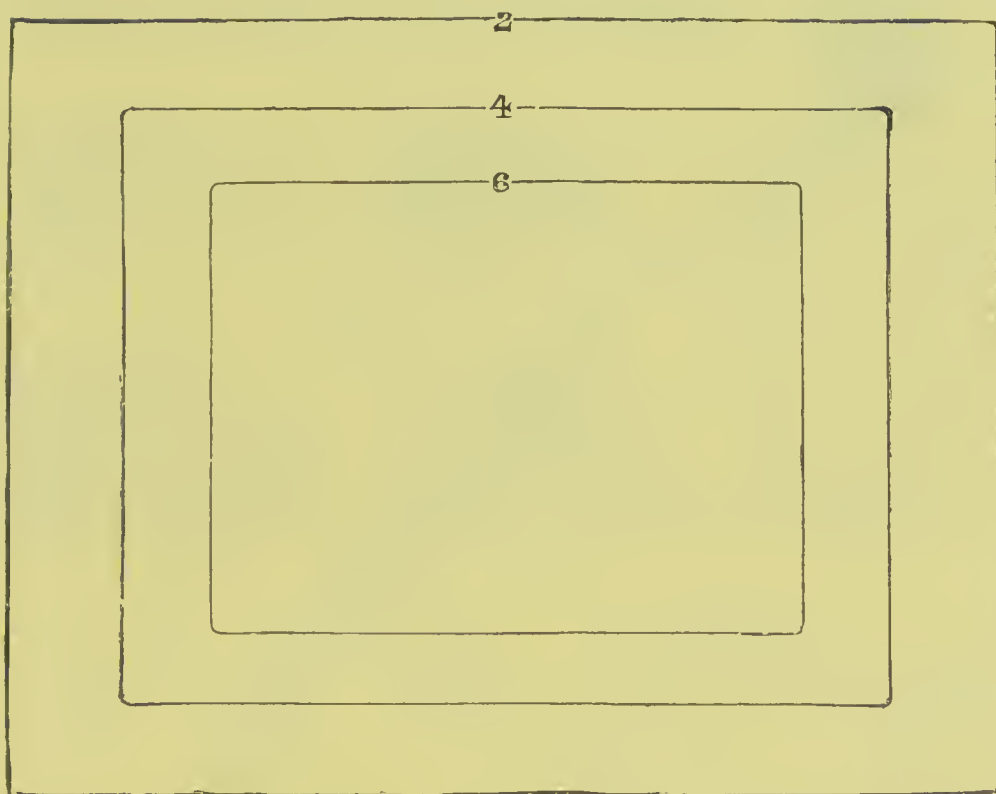
Plain :

| | s. | d. |
|------------------------------|----|----|
| For full sets each | 0 | 4 |
| „ half-sets „ | 0 | 3 |
| „ partial sets „ | 0 | 2 |

Covered with morocco paper :

| | s. | d. |
|----------------------------|----|----|
| For full sets „ | 0 | 5 |
| „ half-sets „ | 0 | 4 |
| „ partial sets „ | 0 | 3 |

SIZES OF CASES.



ELECTROTYPES.

FOR APPOINTMENT BOOKS, RECORD FORMS, Etc.

FIG. 3.

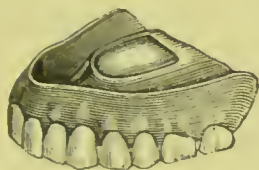


FIG. 4.



FIG. 7.

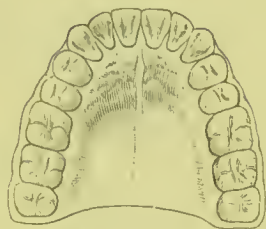


FIG. 5.

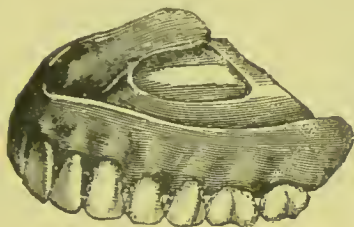


FIG. 6.

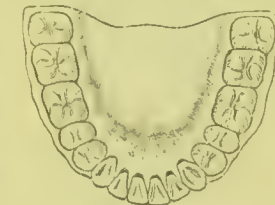
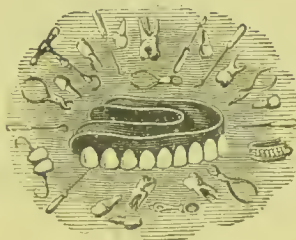


FIG. 8.

FIG. 1.

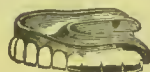


FIG. 9.

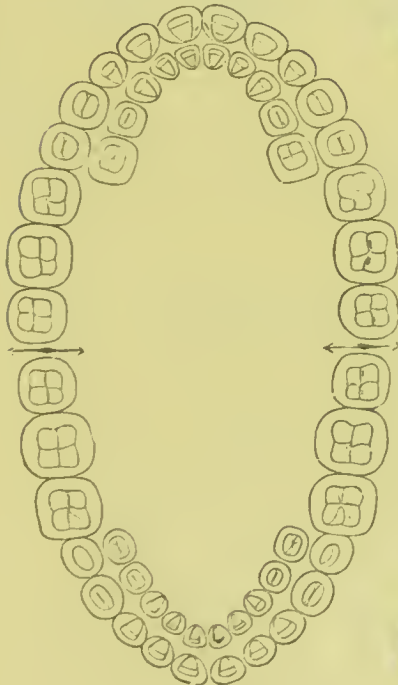
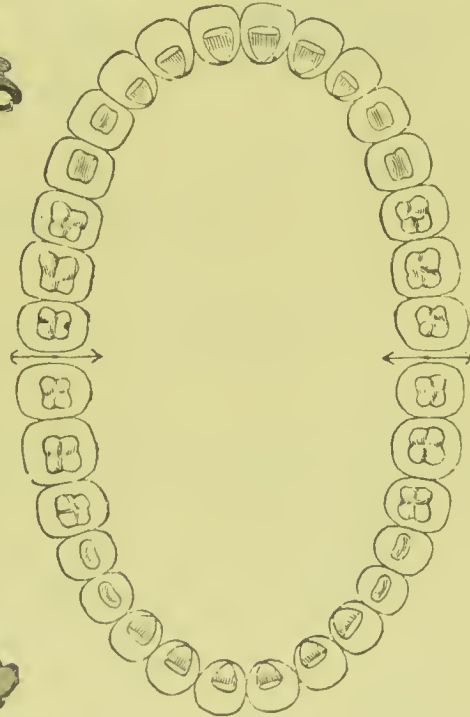
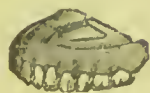


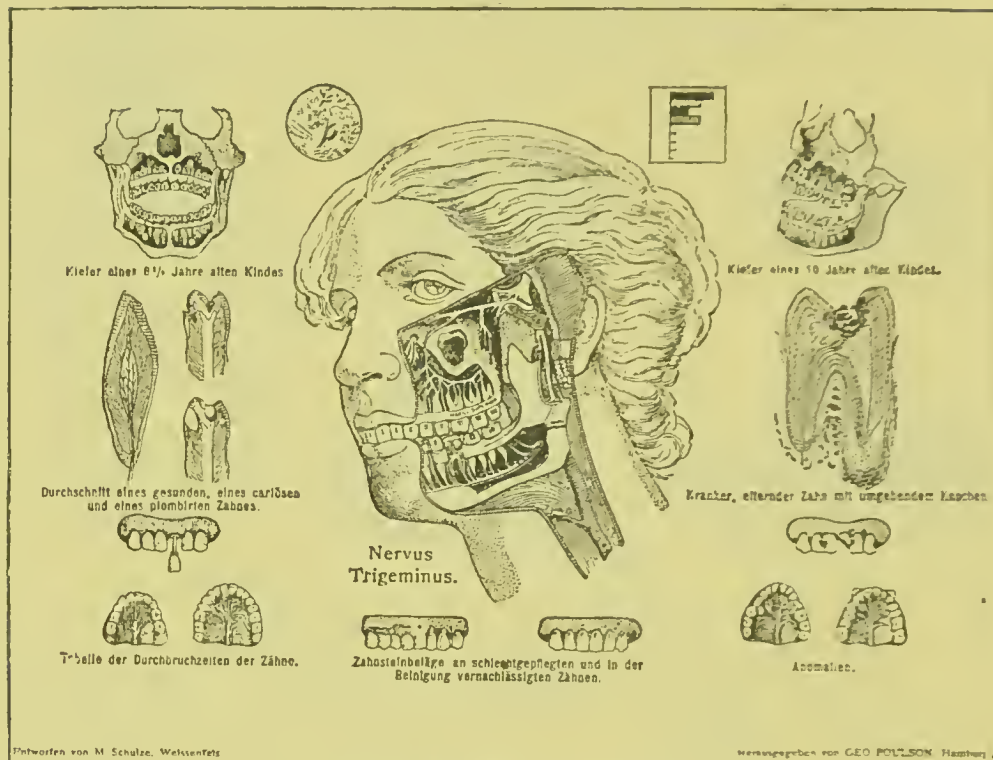
FIG. 2.



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